East Meadow U.F.S.D.

Curriculum Area Project

2012 – 2013

Grade 5 – Math Spiral Assessments

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Table of Contents

Section

1. Cover Page

2. Abstract

3. Rationale

4. Spiral Assessments 1 - 10

CAP - Grade 5 Math Spirals

Abstract

The purpose of this CAP was to design Fifth Grade Math Spiral Assessments that feature Common Core exemplar questions. The Spirals follow the East Meadow School District’s scope and sequence for Mathematics, while spiraling back to touch upon previously learned material. Questions are designed to meet each of the Common Core Standards for Grade 5 Mathematics.

CAP - Grade 5 Math Spirals

Rationale

The purpose of spiral assessments are to test students on the concepts and skills that were most recently taught, while also having them revisit previous lessons.

The New York State Department of Education has mandated that its public schools follow the rigorous Common Core Curriculum. The East Meadow School District is fully invested in the Common Core Curriculum. The NYS Assessments are written through the Common Core Curriculum; our spiral assessments must be written at the same level.

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

Spiral Assessment 1

**Part 1**

Read each question carefully and place each answer on the appropriate line on the answer sheet.

**1**

The creator of a YouTube video claimed that he received 2,419,386 hits. What is the value of the digit 2 in 2,419,386?

A) 200,000,000

B) 20,000,000

C) 2,000,000

D) 200,000

**2**

Jane baked 24 muffins. Her sister Mary ate 3 muffins, and her brother Stephen ate 2 muffins. Which expression can Jane use to find how many cupcakes are left?

A) 24 + (3 – 2)

B) 24 – (3 + 2)

C) (24 – 3) + 2

D) 24 – (3 – 2)

**3**

Frank took 42 photos with his digital camera. He stored an equal number of photos in each of 3 folders on his computer. Which number sentence could Frank use to find the number of photos in each folder?

A) 3 × 14 = 42

B) 3 × 40 = 120

C) 3 × 42 = 12

D) 4 × 42 = 168

**Go On**

A traveling carnival is visiting the local park. The ticket booth has already sold 3,000 ride bracelets. Each bracelet costs $20. How much money has the ticket booth already collected?

**4**

A) $60

B) $600

C) $60,000

D) $600,000

**5**

A taxicab travels 234 miles every day. How many miles does the taxicab travel in 5 days?

A) 1,050 miles

B) 1,150 miles

C) 1,170 miles

D) 1,520 miles

**6**

Bob burns 354 calories in 1 hour by jogging on his treadmill. He jogged for 28 hours last month. How many calories did Bob burn in all last month from jogging on his treadmill?

A) 8,482 calories

B) 9,912 calories

C) 10,266 calories

D) 21,240 calories

**7**

Michelle's family is going to a beach resort. Michelle bought 7 beach towels that cost $13 each to take to the resort. To find the total cost, she added the products of 7 × 10 and

7 × 3 for a total of $91. What property did Michelle use?

A) Commutative Property of Multiplication

B) Commutative Property of Addition

C) Associative Property of Multiplication

D) Distributive Property

**Go On**

Molly has 16 postcards from each of 8 different cities in Pennsylvania. She can fit 4 postcards on each page of her scrapbook. How many pages in the scrapbook can Molly fill with postcards?

**8**

A) 22

B) 32

C) 41

D) 512

**9**

An earthquake was felt over an area of 5,000 square miles. Which shows 5,000 as a whole number multiplied by a power of ten?

A) 

B) 

C) 

D) 

**10**

Kareem decided to buy 300 shares of stock in a business. Each share costs $60. Which of the following could he use to find the total amount he will pay for the stock?

A) 

B) 

C) 

D) 

**11Go On**

Jen and her brother Jon are saving to buy a basketball hoop that costs $75. Jen earns $15 each week for babysitting and spends $6 of it. Jon earns $10 each week for walking dogs and spends $4 of it. Which expression can be used to find how many weeks it will take to save for the basketball hoop?

A) 75 ÷ [(15 – 6) + (10 – 4)]

B) 75 ÷ [(15 + 6) – (10 + 4)]

C) 75 ÷ [(15 – 6) + (10 + 4)]

D) 75 ÷ [(15 – 6) – (10 – 4)]

**Go On**

Pete’s Pizza sells large pizzas for $10. Each additional topping costs $2. Mr. Perkins is buying 1 large pizza with 3 additional toppings. He will pay with a $20 bill. He used the expression 20 – 10 – 3 × 2 to find how much change he should receive. How much change should Mr. Perkins receive?

**12Go On**

A) $2

B) $4

C) $6

D) $14

**13Go On**

Marty is going mountain climbing at Thunderbolt Peak in California. The height of the mountain is about 14 × 10³ feet. What is the height of Thunderbolt Peak written as a whole number?

A) 140 feet

B) 1,400 feet

C) 14,000 feet

D) 140,000 feet

**14Go On**

A train conductor collects 165 tickets every day. How many tickets does he collect in 7 days?

A) 725

B) 1,125

C) 1,145

D) 1,155

**15**

Andy baked 120 cookies to give to 5 friends. He wants to put the same number of cookies in each bag. Which of the following can he use to find how many cookies to put in each bag?

A) (5 × 20) + (5 × 4)

B) (5 × 10) + (5 × 8)

C) (5 × 60) + (5 × 2)

D) (5 × 15) + (5 × 5)

**Go On**

Joe is cutting wood in half-foot lengths. How many half-foot lengths will he get from an 8-foot long piece of lumber?

**16**

A) 16

B) 8

C) 6

D) 4

**17**

Wal-Mart has 2 separate displays of toy trains. There are 16 sets of trains in each display. If there are 4 trains in each set, how many trains in all are on display?

A) 32

B) 64

C) 128

D) 148

**18**

Sam cooked a quart of chili. His family ate quart of chili for dinner. Later, as a snack, the family ate quart more of chili. How much chili was eaten in all?

A) 1 quart of chili

B) quart of chili

C) quart of chili

D) quart of chili

**Go On**

**19**

Which number is the standard form of seventeen million, five hundred thousand, six hundred twenty-two?

A) 17,005,622

B) 17,050,622

C) 17,500,622

D) 18,500,622

Fourteen girls and 42 boys were in a soccer tournament. The group was divided into teams, with 7 people on a team. Which expression and answer tells the number of teams that were formed?

**20**

A) (42 – 14) ÷ 7; 4 teams

B) 42 – 14 ÷ 7; 40 teams

C) (14 + 42) ÷ 7; 8 teams

D) 14 + 42 ÷ 7; 20 teams

Part 2 Short and Extended Response

**21**

What are the next two numbers in the pattern?

2, 6, 18, 54, \_\_\_\_\_\_, \_\_\_\_\_\_

Answer: \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_

**Go On**

Harriet bought 2.85 pounds of grapes at the market. About how many pounds of grapes did Harriet buy rounded to the nearest pound? Describe how you found your answer.

**22**

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**23**

The deck on Mr. Simone’s home measures 8.09 meters. Which is the correct word form for the decimal 8.09?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**24**

Ricky saw a pair of jeans on sale for $48.87. The original price of the jeans was $65.35. The man at the cash register told Ricky he would save $17.52 on the jeans. Was the man correct? Why or why not?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**25**

Mike solved the following problem using the correct order of operations. List the steps he followed in their proper order.

6 + 12 ÷ (4 – 1)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Stop**

Grade 5 Spiral Assessment 1 Answer Sheet

1. C

2. B

3. A

4. C

5. C

6. B

7. D

8. B

9. C

10. B

11. A

12. B

13. C

14. D

15. A

16. A

17. C

18. B

19. C

20. C

Part 2 Short and Extended Response

21. 162 & 486

22. 3 Lbs. I looked at the number in the tenths place. It was an eight and so it told me to round the number in the ones place up. I changed the two to a three.

23. Eight and nine hundredths

24. No, he was not correct. $65.35 - $48.87 = $16.48

25. Step 1: 4 - 1 = 3 (parenthesis); Step 2: 12 ÷ 3 = 4; Step 6 + 4 = 10

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

Spiral Assessment – Test 2

**Part 1**

Read each question carefully and place each answer on the appropriate line on the answer sheet.

**1**

Sarah filled up her car’s gas tank and then went on a trip. After she drove 329 miles, she filled her tank with 14 more gallons of gas. If she drove the same number of miles on each gallon of gas, how many miles per gallon did she drive?

A) 23 miles per gallon

B) 23 ½ miles per gallon

C) 24 miles per gallon

D) 24 ½ miles per gallon

**2**

Pilar decided to divide 1,292 by 31 using partial quotients. She uses 30 as her first partial quotient. Which are the partial quotients Pilar should show in her work?

A) 30, 10

B) 30, 10, 1

C) 10, 10, 10, 1

D) 10, 10, 10, 10, 1

**3**

Darren needs to solve the problem 2,406 ÷ 6. In what place is the first digit of the quotient for the problem 2,406 ÷ 6?

A) ones

B) tens

C) hundreds

D) thousands

**Go On**

A restaurant uses 64 carrots for each batch of soup. About how many batches of soup can the restaurant make from its last shipment of 1,325 carrots?

**4**

A) 15

B) 20

C) 30

D) 64

**5**

The number of children at the movies was 3 times the number of adults. The

total number of people at the movies was 48. How many children were at the

movies?

A) 12

B) 24

C) 32

D) 36

**6**

Beth wants to buy collector boxes that can hold 6 dolls each. How many boxes will Beth need to buy for her collection of 168 dolls?

A) 21

B) 28

C) 34

D) 1,008

**7**

An airplane has 416 seats arranged in 52 rows. If there is the same number

of seats in each row, how many seats are in one row?

A) 21,632

B) 364

C) 8

D) 6

**Go On**

During a school fund raiser, the fifth-grade classes sold rolls of wrapping paper. The table shows how many rolls each class sold. The rolls were sold in packages of 4.

**8**

**Wrapping Paper Sold**

|  |  |
| --- | --- |
| Class | Total Rolls |
| Ms. Lane | 672 |
| Mr. Milner | 184 |
| Mrs. Jackson | 228 |

How many packages of wrapping paper did Ms. Lane’s class sell?

A) 2,688

B) 173

C) 168

D) 143

**9**

An auditorium has 1,224 seats. There are 36 seats in each row. Dave wants to know how many rows of seats are in the auditorium. What is the first digit in the quotient 1,224 ÷36?

A) 2

B) 3

C) 4

D) 5

**10**

A newspaper company used 1,826,234 sheets of paper last week. What is the

value of the digit 8 in 1,826,234?

A) 800,000

B) 8,000

C) 80,000

D) 800

**Go On**

Brian won 50 tickets at the arcade. He redeemed 30 tickets for a prize and gave 5 tickets to a friend. Which expression can Brian use to find how many tickets he has left?

**11Go On**

A) 50 – (30+5)

B) 50 + (30 – 5)

C) (50 + 30) + 5

D) 50-(30-5)

**12Go On**

Maria drives 634 miles to visit her grandfather in Baltimore. How many miles

does Maria drive if she visits her grandfather 4 times?

A) 2,426 miles

B) 2,436 miles

C) 2,536 miles

D) 2,836 miles

**13Go On**

A shoe store is having a big sale on 2,000 pairs of boots. Every pair of boots will sell for $40. If the store sells all the boots, which of the following could be used to find the total amount the store will make from the sale?

A) (4 x 2) x 10² = 800

B) (4 x 2) x 10³ = 8,000

C) (4 x 2) x  = 80,000

D) (4 x 2) x  = 800,000

**Go On**

A company manufactures 354 cars each day. How many cars do they manufacture

**14Go On**

in 24 days?

A) 2,124

B) 7,286

C) 8,296

D) 8,496

**15**

Tara baked 9 trays of cookies. Each tray had 5 rows with 4 cookies in each row. Tara wrote the equation (9 x 5) x 4 = 9 x (5 x 4). What property did Tara use?

A) Commutative Property of Multiplication

B) Associative Property of Addition

C) Associative Property of Multiplication

D) Distributive Property

**16**

Of the 90 trading cards Sam has, 55 are football cards and 35 are baseball cards. He gives Henry 10 football cards and Henry gives Sam 8 baseball cards. Which expression can be used to find the number of trading cards Sam has now?

A) (55 – 10) + (35 + 8)

B) (55 + 8) – (35 + 10)

C) (55 – 10) – (35 + 8)

D) (55 + 8) - (35 – 10)

**Go On**

Candice is making a necklace with beads. She has 8 beads and buys 2 packages with 25 beads in each package. She needs 45 beads for the necklace. She uses the expression 8 + 25 x 2 – 45 to find how many beads she has left. How many beads does Amanda have left?

**17**

A) 3

B) 13

C) 21

D) 103

**18**

Sandy cut three pieces of yarn to use for her art project. One piece was 1 Foot 8 inches long, one was 10 inches long, and one was 2 feet 6 inches long. How much yarn did Sandy use?

A) 3 feet 12 inches

B) 4 feet 10 inches

C) 5 feet

D) 5 feet 6 inches

**19**

The U.S. Senate has 100 elected members who make laws for the United States. Last year 30 senators ran for reelection. Which decimal is equivalent to **** ?

A) 3.100

B) 0.3

C) 0.03

D) 0.003

**Go On**

Miss Rojas plans to sell tote bags at the art festival for $33 each. She will need to make $265 to pay the rent for the space at the festival. About how many tote bags will she need to sell to pay the rent?

**20**

A) 3

B) 7

C) 9

D) 30

Part 2 Short and Extended Response

**21**

Joe’s answer to the test question below was 10.

*Evaluate: 11 + 7 – 2 x 3 + 8 ÷ 2*

A. Evaluate the expression. Show your work.

B. Is Joe’s answer correct? Explain

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Go On**

Henry works 140 hours each month and earns $12 per hour.

**22**

A. Show how to use the distributive property to find how much Henry earns each month.

B. If Henry earns the same amount each month, how much will he earn in 12 months? Show your work.

**23**

Simone collects refrigerator magnets. She has 756 magnets in her collection.

A. If each box can hold 22 magnets, how many boxes can Simone fill completely with her magnets? Show your work.

B. How many boxes will Simone need to hold all of her magnets? Explain how you interpreted the remainder to answer parts A and B.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Go On**

**24**

Dara needs 322 yards of ribbon to decorate quilts for a craft fair. The ribbon comes in rolls of 15 yards.

A. How many rolls of ribbon should Dara buy? Explain your answer.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. Alice needs twice as many yards of ribbon as Dara. How many rolls does Alice need? Explain your answer.

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**25**

Suppose a Pony Express rider rode a total of 165 miles. If he replaced each horse with a fresh horse every 11 miles, how many horses would he have used? Show your work.

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Stop**

Grade 5 Spiral Assessment Test 2 Answer Sheet

1. B

2. B

3. C

4. B

5. D

6. B

7. C

8. C

9. B

10. A

11. A

12. C

13. C

14. D

15. C

16. A

17. B

18. C

19. B

20. C

Part 2 Short and Extended Response

21. A. 11 + 7 – 2 x 3 + 8 ÷2; 11 + 7 – 6 + 8; 18 – 6 + 8; 12 + 8 + 20

B. Joe’s answer is not correct. He did not use PEMDAS

22. A. 140 x 12 = (140 x 10) + (140 x 2) = 1,400 + 280 = 1,680

B. 1,680X 12 = 20,160

23. A. 756 ÷22 = 34 boxes

B. Simone will need 35 boxes to hold all her magnets since there are 8

magnets remaining.

24. A. 322 ÷ 15 = 21 Remainder 7. She will need 22 rolls.

B. 644 ÷ 15 = 42 Remainder 14. She will need 44 rolls.

25. 165 ÷ 11 =15 horses

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

Spiral Assessment Test 3

**Part 1:** Read each question carefully and place each answer on the appropriate line on the answer sheet.

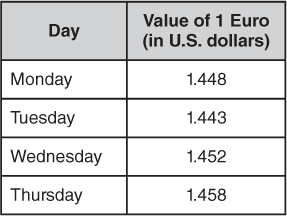
Amy’s sunflower plant was 64.34 centimeters tall in July. During August, the plant grew 58.7 centimeters. How tall was Amy’s sunflower plant at the end of August?

**1**

1. 702.1 cm
2. 123.04 cm
3. 70.21 cm
4. 58.7 cm

Michelle records the value of one Euro in U.S. dollars each day for her social studies project. The table shows the data she has recorded so far.

**2**



**On which two days was the value of 1 Euro the same when rounded to the nearest hundredth of a dollar?**

A) Tuesday and Wednesday

B) Tuesday and Thursday

C) Monday and Wednesday

1. Monday and Thursday

**Go On**

Students are selling muffins at a school bake sale. One muffin costs $0.25, 2 muffins cost $0.37, 3 muffins cost $0.49, and 4 muffins cost $0.61. If this pattern continues, how much will 6 muffins cost?

**3**

A) $0.73

B) $0.83

C) $0.85

D) $0.97

Madeline walked 1.75 kilometers on Monday and 3.2 kilometers on Wednesday. What was the total distance that Madeline walked on Monday and Wednesday?

**4**

A) 33.75 km

B) 20.7 km

C) 4.95 km

D) 2.07 km

#### 

Mike and Deidre are playing a number pattern game. Mike wrote the following sequence**.**

**5**

Description: Ask Your Teacher

**What is the unknown term in this sequence?**

A) 21.6

B) 22.6

C) 22.7

D) 25.8

**Go on**

**6**

The table lists the top four times for the 100-meter hurdles event.



**Who had the fastest time?**

A) Jameel

B) Shakira

C) Lindsay

D) Nicholas

It takes the dwarf planet Pluto 247.68 years to revolve around the sun. What is 247.68 years rounded to the nearest whole number?

**7**

A) 247 years

B) 247.6 years

C) 247.7 years

1. 248 years

**Go on**



**8**

Which list of decimals is in order from least to greatest?

A) 0.3, 0.04, 0.25, 0.12

B) 0.12, 0.25, 0.3, 0.04

C) 0.04, 0.25, 0.12, 0.3

D) 0.04, 0.12, 0.25, 0.3

**9**

Jade solved the subtraction problem below.

6.93 – 4.07

**Which addition problem could Jade use to check her answer?**

1. 2.86 + 2.86

B) 2.86 + 4.07

C) 4.07 + 4.07

D) 4.07 + 6.93

**10**

In the number **0.485925**, in what place is the underlined number?

A) tenths

B)  hundreds

C) ones

D) hundredths

**Go on**

**11**

In the number **36.2436**, what is the value of the underlined number?

A) 2

B) 20

C) 2 tenths

D) 2 hundredths

A chef measured the mass of pieces of chicken. The mass of the first chicken was 76.04 grams. The mass of the second chicken was 81.54 grams. Which is the best estimate of the difference in the masses of the chickens?

**12 Go On**

A) 5 grams

B) 10 grams

C) 15 grams

D) 160 grams

**13 Go On**

A singer is recording a cd. The lengths of the three songs are

4.4 minutes, 2.78 minutes, and 3.19 minutes. If the cd can hold 20 minutes of music, what amount of minutes available after the recording?

1. 9.63 minutes

B) 9.73 minutes

C) 10.01 minutes

D) 10.37 minutes

**Go on**

**144Go On**

Tara measured the growth of the cactus plant she was growing. It started at 3.5 inches. After one week, she measured it at 4.25 inches. After two weeks, she measured it at 5 inches. If it continues to grow at the same rate, how tall will it be after three weeks?

|  |  |
| --- | --- |
| Week | Height |
| 0 | 3.5 in. |
| 1 |  |
| 2 |  |
| 3 |  |

1. .55 in.
2. 12.75 in.
3. 12.3 in.
4. 5.75 in.

Tara also planted a blueberry bush on April 1st. When she planted it, the blueberry bush measured 1.25 feet tall. On May 1st, it measured 2.1 feet tall. On June 1st, it measured 2.95 feet tall. If it continues to grow at the same rate, how tall will it be on August 1st?

**15Go On**

1. 3.85 feet
2. 4.65 feet
3. 3.8 feet
4. 6.3 feet

**Go On**

Katie's family is going to a beach resort. Katie bought 7 beach towels that cost $13 each to take to the resort. To find the total cost, she added the products of 7 x 10 and 7 x 3, for a total of $91. What property did Sherry use?

**16Go On**

1. Commutative Property of Multiplication
2. Commutative Property of Addition
3. Associative Property of Addition
4. Distributive Property

Karin baked 24 cupcakes. Her sister Mia ate 3 cupcakes, and her brother Mike ate 2 cupcakes. Which expression can Karin use to find how many cupcakes are left?

**17Go On**

1. 24 – (3 + 2)
2. 24 + (3 – 2)
3. (24 – 3) + 2
4. 24 – (3 – 2)

**18Go On**

The Earth’s circumference around the equator is 25 x 10³. What is the Earth’s estimated circumference written as a whole number?

A) 250 miles

B) 2,500 miles

C) 25,000 miles

D) 250,000 miles

**Go On**

Miss Coach plans to sell tote bags at the art festival for $33 each. She will need to make $265 to pay the rent for the space at the festival. How many tote bags will she need to sell to pay the rent?

**19 On**

A) 8.030 bags

B) 8 bags

C) 9 bags

D) 8 r1 bags

**20On**

A pet store sold 310,409 bags of dog food last year. What is the expanded form of 310,409?

A) 300,000 + 10,000 + 400 + 9

B) 30,000 + 1,000 + 400 + 9

C) 310,000 + 1,000 + 400 + 9

D) 300,000 + 10,000 + 49

Part 2 Short and Extended Response

**21**

Madison needs 422 yards of ribbon to decorate for the school dance. The ribbon comes in rolls of 15 yards. How many rolls of ribbon should Madison buy? Explain your answer. \_\_\_\_\_\_\_\_\_\_\_ yards of ribbon

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**Go On**

Joe wrote the number fourteen and twenty five thousandths as 14.25. Is his number written correctly? Why or why not?

**22**

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**23**

Explain what happens when you round 9.999 to the nearest tenth.

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**24**

Explain how you could use base ten blocks to find the sum of 247 + 134.

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**25Go On**

When you need to buy items at a store, is it a better idea to overestimate or underestimate the total cost of items you need to buy? Why?

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**Stop**

Spiral Math Assessment 1-Answer Key

|  |  |
| --- | --- |
| Pt. 1 M.C.  1) B  2) C  3) C  4) C  5) B  6) A  7) D  8) D  9) B  10) D  11) C  12) A  13) A  14) D  15) B  16) D  17) A  18) C  19) C  20) A | Short and Extended Response  21) She needs 29 rolls because 28.13 needs to be rounded to 29 rolls.  22) No because he wrote fourteen and twenty five hundredths. He should have written 14. 025.  23) When the 9 in the tenths place rounds up, it becomes a 10. You must regroup. This makes the 9 in the ones place a 10.  24) You would use 2 of the hundreds flats, plus 4 tens rods, plus 7 ones units. You would add this to one hundred flat, plus 3 tens rods, plus 4 ones units.  25) It is better to overestimate because in real life situations you want to have extra money at the end of your purchase and not have to put items back. |

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

Spiral Assessment – Test 4

**Part 1**

Read each question carefully and place each answer on the appropriate line on the answer sheet.

Rihanna made a shelf to store her collection of racks and shells. She used 5 pieces of wood that were each 3.35 feet long. How much wood did Rihanna use in all to make the shelf?

**1**

A) 6.25 feet

B) 15.05 feet

C) 15.25 feet

D) 16.25 feet

Artie is setting up a fish tank for his goldfish. The tank holds 15 gallons of water. Each gallon of water weighs 8.3 pounds, how much will the water in Artie’s fish tank weigh?

**2 Go On**

1. 12.45 pounds
2. 16.5 pounds
3. 124.5 pounds
4. 165 pounds

**3**

Emily stopped at the produce stand to buy some tomatoes. Tomatoes cost $1.25 per pound at the stand. Emily bought 5 tomatoes that weighed 1.8 pounds in total. How much did Emily pay for the tomatoes?

1. $1.13
2. $2.25
3. $3.05
4. $22.50

**Go On**

**4 Go On Go On 4 Go On**

Ganesh is making a scale model of the Space Needle in Seattle Washington, for the report on the state of Washington. The Space Needle is 605 feet tall. If the model is of the actual size of the Space needle, how tall is model?

A) 0.605 foot

B) 6.05 feet

C) 6.5 feet

D) 60.5 feet

**5**

Larry is mixing some ammonia and water for washing windows. He puts 0.25 quart of ammonia in a bucket. Then he puts 10 times as much water as ammonia into the bucket. How much water did he add to the bucket?

1. 12.25 quarts
2. 10.25 quarts
3. 2.75 quarts
4. 2.5 quarts

**6**

At a dry cleaning store, it costs $1.79 to clean a man’s dress shirt and $8.25 to clean a suit. Thomas brought in 4 shirt and 1 suit to be cleaned. How much will he pay for the dry cleaning?

1. $ 7.16
2. $8.95
3. $10.04
4. $15.41

**7**

Mrs. Green is organizing a school trip to a museum for 122 students, teachers and

parents. She needs to order enough buses to seat 25 people to a bus. How

many buses will she need?

1. 22
2. 4
3. 23
4. 5

**Go On**

**8**

Maria is going to Sue’s house and promised her mom she would be home by 5:30 pm. If it takes 15 minutes to get to Sue’s house and they watch a two- hour movie once she gets there, what time must Maria leave her house to visit Sue? (Remember it will take her 15 minutes to get home from Sue’s house.)

A) 3:30 pm

B) 3:00 pm

C) 2:30 pm

D) 2:00 pm

**9**

A scientist at a giant panda preserve in China measured the length of a newborn cub as 15.5 centimeters. The cub’s mother is 9.5 times as tall as the length of the cub. How tall is the mother?

1. 14.725 centimeters
2. 25 centimeters
3. 147.25 centimeters
4. 1,472.5 centimeters

**10Go On**

Bicycles rent for $59 per day. Which expression can be used to find the cost in dollars of renting 6 bicycles for a day?

1. (6 + 50) + (6 +9)
2. (6 × 50) + (6 × 9)
3. (6 + 50) × (6 + 9)
4. (6 × 50) × (6 × 9)

The Bentons are keeping track of their family energy costs. It costs the Bentons $0.16 per week to run their dishwasher. How much will it cost them to run their dishwasher for 52 weeks?

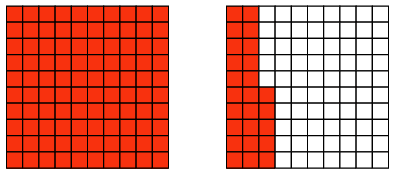
**11Go On**

1. $8.64
2. $8.32
3. $3.64
4. $1.92

**Go On**

What number represents the shaded portion of the grids below?

**12 On**



A) 1.25

B) .25

C) 1.15

D) 1.025

Which decimal belongs in the box?

**13Go On**

1**.**9

1**.**5

1**.**2

1

A) 1**.**8

B) 1**.**3

C) 1**.**7

D) 1**.**1

Marni and Rob are making a poster for the science fair. They need to write how much a rock that weighs 7 pounds on Earth would weigh on Mars. They know that they can multiply weight on Earth by 0.38 to find the weight on Mars. What number should they write on their poster?

**14o On**

1. 0.266 pound
2. 2.66pounds
3. 26.6 pounds
4. 266 pounds

**Go On**

**15o On**

Jack’s neighbor asked Jack to mow his lawn while he was on vacation. Jack bought 1.6 gallons of gas for the lawn mower. The gas cost $2.85 per gallon. How much money did Jack pay for the gas?

1. $4.13
2. $4.45
3. $4.56
4. $45.60

Tina is making a special dessert for her brother’s birthday. Tina’s recipe calls for 0.4 kilogram of flour. The recipe also calls for an amount of sugar that is 0.2 times as much as the amount of flour. How much sugar will Tina need to make the dessert?

**16Go On**

1. 0.8 kilogram
2. 0.6 kilogram
3. 0.08 kilogram
4. 0.06 kilogram

The information booklet for a video console says that the console uses about 0.2 kilowatt of electricity per hour. If electricity costs $0.15 per kilowatt hour, how much does it cost to run the console for an hour?

**17Go On**

1. $0.03
2. $0.30
3. $3.00
4. $30.00

Students are selling muffins at a school bake sale. One muffin costs $0.25, 2 muffins cost $0.37, 3 muffins cost $0.49, and 4 muffins cost $0.61. If this pattern continues, how much will 6 muffins cost?

**18Go On**

1. $0.73
2. $0.83
3. $0.85
4. $0.97

**Go On**

**19Go On**

It takes the dwarf planet Pluto 247.68 years to revolve around the sun. What is 247.68 years rounded to the nearest whole number?

1. 247 years
2. 247.6 years
3. 247.7 years
4. 248 years

**Part 2 Short and Extended Response**

**20 On**

Mr. Evans is paid $9.20 per hour for the first 40 hours he works in a week. He is paid 1.5 times that rate for each hour after that. Last week, Mr. Evans worked 42.25 hours. He says he earned more than $400 last week. Do you agree? Support your answer.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Kendra raised $28.95 in the walkathon. Ruthie raised $16.50 more than Kendra. Bill raised 3 times as much money as Ruthie. How much did Bill raise in the walkathon?

**21Go On**

**Show your work**.

Answer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Go On**

|  |  |
| --- | --- |
| Sandwiches | Drinks |
| Tuna $3.95 | Small $1.29 |
| Turkey $4.85 | Medium $1.59 |
| Grilled Cheese $3.25 | Large $1.79 |

**22 On**

Jennifer and Louis are looking at a menu to decide what to have for lunch before they go roller skating. Admission to the roller rink is $5.75. Jennifer has $12. She estimates that she can buy a large drink and a turkey sandwich and still have enough money to get into the rink. Do you agree?Support your answer.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Karen buys bags of sand for her sandbox. The table below shows the weight of each bag of sand.

**23**

|  |  |
| --- | --- |
| **Bag** | **Weight (in pounds)** |
| **A** | **2.5** |
| **B** | **2.45** |
| **C** | **2.8** |
| **D** | **2.12** |
| **E** | **2.4** |

**Part A**

What is the letter of the heaviest bag?

**Answer**

**Part B**

List the weights of the bags in order from **least to greatest**.

**Answer**

**Go On**

Each product below is missing a decimal point.

**24**

**Part A**

Place the decimal point in each example so that the equation is correct.

12.53 × 5 = 6 2 6 5

4.28 × 3.6 = 1 5 4 0 8

1.3 × 0.89 = 1 1 5 7

7 × 6.12 = 4 2 8 4

**Part B**

Circle one of the equations. Explain how you decided where to place the decimal point in this equation.

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Brian picked 11 times as many blueberries as Nick. Together, they picked 936 blueberries. How many blueberries did each boy pick?

**25**

Show your work

Answer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**STOP**

Spiral Math Assessment 4-Answer Key

1. D
2. C
3. B
4. B
5. D
6. D
7. D
8. B
9. C

10. B

11. B

12. A

1. C
2. B
3. C
4. C
5. A
6. C
7. D
8. Disagree -$9.20 × 40 =$368, $9.20 × 1.5 =$13.80 which is rate for each hour over

40. $13.80 × $2.25 =$31.05, $31.05 + 368 =$399.05 $399.05 ‹ $400

1. $136.35
2. No, I rounded each amount to nearest dollar.

Roller Rink -$6 Large Drink- $2 & \turkey sandwich $5. 6 + 2 + 5 =$13 – more than Jennifer has

1. Part A – C

Part B – 2.12, 2.4, 2.45, 2.5, 2.8

1. Part A - 62.65 15.408 1.157 42.84

Part B – Logical explanation

1. Brian- 858 Nick- 78

Nick

788

Brian

936 ÷ 12=78, Nick 78×11=858, Brian

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

Spiral Assessment Test 5

**Part 1:** Read each question carefully and place each answer on the appropriate line on the answer sheet.

Brianna rode her bicycle 26.5 miles in 4 hours. Which gives the best estimate of how far Brianna rode in 1 hour?

**1**

1. 0.5 miles
2. O.6 miles
3. 5 miles
4. 7 miles

Charley is making small bags of dried fruit from a large bag of dried fruit that weighs .46 pounds. If he puts the same amount of dried fruit in each of 6 bags, how much will each bag weigh?

**2**

1. 0.0091 pound
2. 0.091 pound
3. 0.91 pound
4. 9.1 pounds

**Go on**

Hayley has a piece of ribbon that is 30.5 yards long. The length is just enough ribbon to make 5 bows that are the same size. How long is the ribbon that Hayley uses for each bow?

**3**

A) 6.1 yards

B) 6.01 yards

C) 6.2 yards

D) 6.5yards

**4**

Jesse is buying 3 books in a trilogy set for $24.81. Jesse will save $6.69 by buying the trilogy set instead of buying individual books. If each book costs the same amount, how much does each of the 3 books cost when purchased individually?

A) $2.23

B) $ 6.69

C) $ 8.27

D) $ 10.50

#### 

Dana drove 357.9 miles. Her car gets about 21 miles per gallon. Which is the best estimate of how many gallons of gas Dana used?

**5**

A) 18 gallons

B) 15 gallons

C) 1.7 gallons

D) 0.18 gallons

**Go on**

Tina bought 2 pair of jeans for the same price. She paid $23.56, including a sales tax of $1.36 and a $5.00 discount coupon. What was the price of 1 pair of jeans before the tax and coupon?

**6**

A) $ 8.60

B) $ 19.96

C) $13.60

D) $ 14.96

Madison bought a 34.6-pound bag of dry dog food to feed her dogs. The bag lasted 8 days. About how much dog food did her dogs eat each day?

**7**

A) 4 pounds

B) 0. 4 pounds

C) 5 pounds

1. 0. 5 pounds



A counselor at Meadowland Camp has 225 yards of lanyard to give to 100 campers to make lanyard key chains. Each camper will get the same length of lanyard. How much lanyard will each camper get?

**8**

A) 22.5 yards

B) 0.0225 yard

C) 0.225 yard

D) 2.25 yard

**Go on**

The students at McVey Elementary School collected 574 cans of food in 20 days for a Thanksgiving food drive. What was the average number of cans of food collected each day?

**9**

1. 2. 87

B) 27

C) 28

D) 28.7

**10**

Qasim records that his gerbil can turn the wheel in its cage to make 1 revolution in 0.5 minute. How many revolutions can the gerbil make in 20.5 minutes?

A)  0.41

B) 41

C) 410

D) 4100

**11**

Athena, Hera and Minerva spent $17.00, including sales tax, on 2 sandwiches and 3 pieces of pie. The sandwiches cost $5.25 each and the total sales tax was $0.92. How much did each piece of pie cost?

A) $ 1.86

B) $ 2.47

C) $ 5.57

D) $ 2.79

**Go on**

Katie baked 100 cupcakes one morning in a bakery. She used 64 ounces of frosting to decorate the cupcakes. If each cupcake had the same amount of frosting, how much frosting did Katie put on each cupcake?

**12 Go On**

A) 6.4 ounce

B) 6.04 ounce

C) 0.64 ounce

D) 0.0064 ounce

**13 Go On**

Andrew bought 13 used video games that were on sale at the local video game store. He paid $84.37 for the games. If each video game cost the same price, how much did 1 video game cost?

1. $6.49

B) $6.59

C) $6.19

D) $6.39

Tara hiked along a trail that was 9.66 miles long last Saturday. It took her 4.2 hours to complete the trail. What was Tara’s average speed per hour?

**144Go On**

1. 0.23 mile per hour
2. 2.3 miles per hour
3. 20.3 miles per hour
4. 23 miles per hour

**Go on**

A grocery store attendant stacked 12 cans of tuna to make a display. The height of the stack of cans is 40.8 centimeters. If the cans of tuna are all the same height, what is the height of each can of tuna?

**15Go On**

1. 3.04 cm
2. 3.4 cm
3. 30.4 cm
4. 34 cm

Mary, Kate and Ashley went to the mall during their summer vacation. Mary spent $16.25

**16Go On**

at the mall. Kate spent $3.40 more than Mary spent. Ashley spent 2 times as much money as Kate spent. How much money did Ashley spend at the mall?

1. $6.80
2. $19.65
3. $32.50
4. $39.30

Michael is in training for a race. When he trains, Michael runs on a trail that is 1.45 miles long. Last week, Michael ran on this trail 6 times. How many miles did Michael run on the path last week?

**17Go On**

1. 0.87 mile
2. 8.7 miles
3. 87 miles
4. 870 miles

**Go On**

Joseph was reading a book for a book report. Last week he read 35 pages of the book. This week, he read 2.5 times as many pages as he read last week. How many pages of the book has Joseph read this week?

**18Go On**

A) 87.5 minutes

B) 35 minutes

C) 85.5 minutes

D) 37.5 minutes

Dominic saved up a total of $88.22. He wants to buy a computer game that costs $49.99. About how much money will Dominic have left?

**19 On**

A) $ 38.27

B) $ 48.23

C) $ 38.23

D) $ 48.27

At the end of January, Mrs. Green had a balance of $446.63 in her checking account. Since then, she has written two checks for $123.49 and $16.85 and made a deposit of $165.00. What is the balance (final sum) in Mrs. Green’s checking account now?

**20On**

A) $ 461.29

B) $ 471.29

C) $ 165.29

D) $ 306.29

**Go On**

Part 2 Short and Extended Response

**21**

Explain how the decimal point in a quotient changes as you divide by increasing powers of 10.

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**22**

Juan has 2. 7 yards of fabric to make bags that require 0.9 yard of fabric each. Describe a decimal model you can use to find out how many bags he can make.

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**23**

Explain 50,000 using exponents.

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**Go On**

Explain in words the process of using the distributive property of division to solve 128 divided by 8.

**24**

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**25Go On**

If you multiplied .75 by 5, would the product be greater than or less than 5? Explain.

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**Stop**

Spiral Math Assessment 5-Answer Key

|  |  |
| --- | --- |
| Pt. 1 M.C.  1) D  2) C  3) A  4) D  5) A  6) D  7) A  8) D  9) D  10) B  11) A  12) C  13) A  14) B  15) B  16) D  17) B  18) A  19) C  20) B | Short and Extended Response  21) As you divide by a power of 10, the decimal moves to the left once for each power of 10.  22)  23) 50 x 10³  24) If you multiply 8 x 10 and get a product of 80, you have a partial quotient.  If you subtract 80 from 128, you get 48.  848 divided by 8 equals 6.  80 plus 6 equals a sum of 86, which is your final answer.  25) Your product would be less than 5  because .75 is less than one so your product can’t be 5. Or, .75 x 5 equals 3.75. |

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

Spiral Assessment Test 6

**Part 1**

Read each question carefully and place each answer on the appropriate line on the answer sheet. You may not use a calculator on this part.

Susan wove three rugs with Navajo designs. She wrote this expression to show the total length in feet of all three rugs.

**1**

( + ) +

Which shows another way to write the expression using the Associative Property of Addition?

1. + +
2. + +
3. ( + ) +( + )
4. (8 + 11 + 15) + ( + + )

**2**

Molly bought pound of grapes and pound of cranberries. What is the least common denominator of the fractions?

1. 14
2. 16
3. 24
4. 128

**Go On**

Kevin bought 3 pounds of apples at the farmers’ market. Ava bought 2 pounds of apples. How many pounds of apples did Kevin and Ava buy in all?

**3**

1. 5
2. 5
3. 5
4. 6

**4**

Amy rode her bicycle 26.5 miles in 4 hours. Which gives the **best** estimate of how far Amy rode in 1 hour?

1. 0.5 mile
2. 0.6 mile
3. 5 mile
4. 7 mile

**5**

Which fraction is equivalent to?

1. 

B) 

1. 

D) 

**Go On**

**6**

Marci mailed 9 letters at the post office. Each letter weighed 3.5 ounces. What was the total weight of the letters that Marci mailed?

1. 27.5 ounces
2. 31.5 ounces
3. 32.5 ounces
4. 33.5 ounces

**7**

Molly needs a piece of string feet long for a science project. She cuts it from a piece that is feet long. How much string does she have left?

1. feet
2. feet
3. feet
4. feet

**8**

Timothy jogged mile on Monday and mile on Tuesday, how much **farther** did Timothy jog on Monday than on Tuesday?

1. mile
2. mile
3. mile
4. mile

**Go On**

Kelly hiked each day for a week. The first day she hiked mile, the second day she hiked mile, and the third day she hiked mile. By how much did she increase the distance she hiked each day?

**9**

1. miles
2. miles
3. miles
4. miles

**10**

What is the value of the expression (4 + 5) – 3 x 2?

A) 3

B) 6

C) 9

D) 12

**11**

Lisa bought tomatoes that cost $0.84 per pound. She paid $3.36 for the tomatoes. How many pounds of tomatoes did she buy?

1. 0.04 pound
2. 0.4 pound
3. 4 pounds
4. 40 pounds

**Go On**

There are 228 race cars qualified for heat races. Each heat race will have 12 race cars. How many heat races will there be?

**12 Go On**

A) 2,736

B) 19

C) 18

D) 9

**13 Go On**

Dean rode his bike mile from his house to the store. Then he rode mile to his uncle’s house. Use benchmarks to estimate how far he rode his bike altogether.

1. about mile
2. about 1 mile
3. about miles
4. about 2 miles

**144Go On**

The school store is expecting a big demand for sweatshirts because the football team is playing in a championship game next week. The store placed an order for 100 sweatshirts. Each sweatshirt costs $8.95. How much did the order of sweatshirts cost the store?

1. $89.50
2. $895
3. $8,950
4. $89,500

**Go On**

**15Go On**

Tony has a ribbon that measures 0.75 meters in length. He cuts 0.125 meter off the ribbon and gives it to a friend. How much ribbon is left?

1. 0.2 meter
2. 0.5 meter
3. 0.625 meter
4. 0.635 meter

**16Go On**

Which numbers on this number line are composite?

20 21 22 23 24 25 26 27 28 29 30

1. 21, 22, 24, 26, 28, 29
2. 23, 29
3. 20, 21, 22, 24, 25, 26, 27, 28, 30
4. All of the numbers are composite

**Go On**

Ana bought pound of Swiss cheese and pound of American cheese. Which pair of fractions cannot be used to find how many pounds of cheese she bought in all?

**17Go On**

1. and
2. and
3. and
4. and

**18Go On**

The diamond in Angela’s necklace weighs 0.258. What digit is in the hundredths place?

1. 0
2. 2
3. 5
4. 8

Johnny caught 3 fish weighing a total of pounds. Two of the fish weighed and pounds. How much did the third fish weigh?

**19**

1. pounds
2. pounds
3. pounds
4. pounds

**Go On**

A stock boy at a grocery store stacked 12 cans of tuna to make a display. The height of the stack of cans is 40.8 centimeters. If the cans of tuna are all the same height, what is the height of each can of tuna?

**20**

**12 On**

1. 3.04 centimeters
2. 3.4 centimeters
3. 30.4 centimeters
4. 34 centimeters

**Part 2 Short and Extended Response**

An activity says, “Write four numbers that when rounded to the hundredths place are 0.45.” A student wrote the four numbers below.

**21**

**12 On**

0.4509 0.4538 0.4438 0.4495

Are the numbers correct? Explain why or why not.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nina rides her bicycle to her cousin’s house. The distance is three and four hundred fifteen thousandths of a mile. Express the distance in expanded form.

**22On**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Go On**

Three florists sold roses for one hour on Mother’s Day. Lily sold as many roses as Bud. Bud sold as many roses as Flora. Flora sold 144 roses. How many roses did Lily sell?

**23On**

*Show your work*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ answer

Ronnie poured muffin batter into 3 muffin tins. Each muffin tin holds 8 muffins. She kept 6 muffins and took the rest to school for the bake sale. Write an expression that could be used to find the total number of muffins Ronnie took to school for the bake sale.

**24**

**12 On**

**Answer** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Go On**

A student has the problems below. The student thinks she sees a rule for how to multiple two powers of 10 that are in exponential form.

**25**

**12 On**

100 × 1,000 = 100,000 × =

100 × 10,000 = 1,000,000 × =

What is the rule?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**STOP**

Spiral Math Assessment 6-Answer Key

1. B

2. B

3. C

4. D

5. B

6. D

7. D

8. C

9. D

10. A

11. C

12. B

13. C

14. B

15. C

16. C

17. C

18. C

19. C

20. B

**Part 2**

21. No, 0.4438 rounds to 0.44

22. 3.415 (3×1) + (4×) + (1×) + (5×)

23. 24 roses

24. (3 × 8) – 6

25. add the exponents

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

Spiral Assessment Test 7

**Part 1:** Read each question carefully and place each answer on the appropriate line on the answer sheet.

Andrew made **Description: Ask Your Teacher** cups of snack mix for a party. His guests ate **Description: Ask Your Teacher** of the mix. How much snack mix did his guests eat?

**1**

1. Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg
2. Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg
3. Description: Ask Your Teacher
4. Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

Louis wants to carpet the rectangular floor of his basement. The basement has an area of 864 square feet. The width of the basement is its length. What is the length of Louis’s basement?

**2**

A) 24 feet

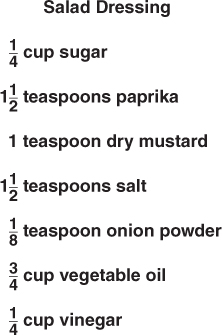
B) 36 feet

C) 48 feet

1. 576 feet

**Go On**

Use the list of ingredients to answer question #3.



**3**

Lauren decides to make 5 batches of salad dressing. How much sugar should she use?

1. Description: Ask Your Teacher

B) Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

C) Description: Ask Your Teacher

D) Description: Ask Your Teacher

**Go On**

Stuart rode his bicycle Description: Ask Your Teacher miles last week. This week he rode Description: Ask Your Teacher times as far as he rode last week. Which statement is true?

**4**

A) He rode the same number of miles both weeks.

B) He rode more miles this week.

C) He rode fewer miles this week.

D) He rode twice as many miles this week.

#### 

A scientist had Description: Ask Your Teacher liter of solution. He used Description: Ask Your Teacher of the solution for an experiment. How much solution did the scientist use for the experiment?

**5**

A) Description: Ask Your Teacher

B) Description: Ask Your Teacher

C) Description: Ask Your Teacher

D) Description: Ask Your Teacher

Sally painted a picture that has an area of 480 square inches. The length of the painting is Description: Ask Your Teacher its width. Which of the following could be

**6**

the dimensions of Sally’s painting?

A) 20 inches by 24 inches

B) 12 inches by 40 inches

C) 16 inches by 30 inches

D) 15 inches by 32 inches

**Go on**

Mr. Angeli wrote 4 statements on the board and asked the class which one was true. Which of the following statements is true?

**7**

A) Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

B) Description: Ask Your Teacher

C) Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

1. Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

Carlos has Description: Ask Your Teacher acres of farmland. He uses Description: Ask Your Teacher of the acres to graze animals and Description: Ask Your Teacher of the acres to grow vegetables. How many acres does

**8**

Carlos use for grazing animals or for growing vegetables?

A) Description: Ask Your Teacher

B) Description: Ask Your Teacher

C) Description: Ask Your Teacher

D) Description: Ask Your Teacher

**Go on**

Mrs. Thompson is buying Description: Ask Your Teacher pounds of turkey and Description: Ask Your Teacher as much cheese as turkey at a deli. Which of the following statements is true?

**9**

1. She is buying the same amount of turkey and cheese.

B) She is buying less turkey than cheese.

C) She is buying twice as much turkey as cheese.

D) She is buying more turkey than cheese.

A rectangular park has an area of 6 square miles. The width of the property is Description: Ask Your Teacher the length of the property. What is the width of the property?

**10**

1. Description: Ask Your Teacher

B)  Description: Ask Your Teacher

C) Description: Ask Your Teacher

D) Description: Ask Your Teacher

In a class book order, Description: Ask Your Teacher of the books are fantasy and Description: Ask Your Teacher of the books are biography. If the order contains 60 books, how many books are either fantasy or biography?

**11**

A) 15

B) 30

C) 40

D) 55

**Go on**

Otis bought a total of Description: Ask Your Teacher pound of grapes and cherries. The weight of the grapes is

**12 Go On**

Description: Ask Your Teacher of the total weight. What is the weight of the grapes?

A) Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

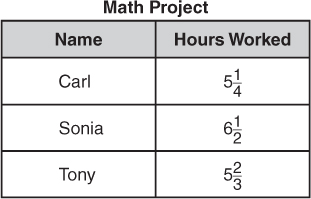
B) Description: Ask Your Teacher

C) Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

D) Description: Ask Your Teacher

The table shows how many hours some students worked on their math project.

**13 Go On**



April worked Description: Ask Your Teacher times as long on her math project as Carl. For how many hours did April work on her math project?

1. Description: Ask Your Teacher

B) Description: Ask Your Teacher

C) Description: Ask Your Teacher

D) Description: Ask Your Teacher

**Go on**

Miss Parks wrote 4 statements on the board and asked the class which one was true. Which statement is true?

**144Go On**

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2. Description: Ask Your Teacher
3. Description: Ask Your Teacher
4. Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

Trisha’s mom baked 16 muffins. Two-eighths of the muffins have cranberries.

**15Go On**



How many of the muffins have cranberries?

1. 12
2. 8
3. 4
4. 2

Laurie runs around a track that is Description: Ask Your Teacher mile long. If she does 10 laps around the track, how far does she run?

**16Go On**

1. Description: Ask Your Teacher
2. Description: Ask Your Teacher
3. Description: Ask Your Teacher
4. Description: Ask Your TeacherDescription: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

**Go On**

Billy painted a go-cart that he and his father had built. He painted Description: Ask Your Teacher of it blue, Description: Ask Your Teacher of it yellow, and the rest of it white. What fraction of the go-cart is painted either blue or yellow?

**17Go On**

1. Description: Ask Your Teacher
2. Description: Ask Your Teacher
3. Description: Ask Your Teacher
4. Description: Ask Your Teacher

Donna, Lorene, and Michelle will cut a length of fabric that is 29.8 feet long into 3 equal pieces. Each of the 3 pieces will be the same length. Which gives the best estimate of how long each will be?

**18Go On**

A) 10 feet

B) 9 feet

C) 1.9 feet

D) 0.9 foot

Arlene purchased 8 packages of chop meat to make hamburgers for the school picnic. Each package weighed 4.2 pounds. What was the total weight of the packages that Arlene purchased?

**19 On**

A) 33.6 pounds

B) 33 pounds

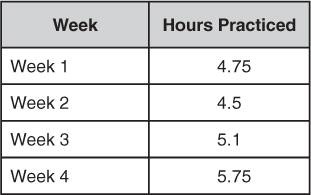
C) 32.6 pounds

D) 12.2 pounds

**Go On**

Antonio kept a record of how long he practiced playing lacrosse each week during one month.

**20On**



During which week did Antonio practice the greatest amount of time?

A) Week 1

B) Week 2

C) Week 3

D) Week 4

Part 2 Short and Extended Response

**21**

An artist mixes ¾ cup of white paint with ⅞ cup of black paint in order to create the proper color of gray. How much paint did the artist use? Explain your answer on the lines provided.

\_\_\_\_\_\_\_\_\_\_\_ cups of paint

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Go On**

**Go On**

Timothy multiplied ⅝ by 1½. He came up with 1¼ as an answer. Is he correct? Why or why not?

**22**

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**23**

¼ ÷ 2 = ⅛ and ¼ × ½ = ⅛. Describe why dividing by 2 is the same as multiplying by ½.

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**24**

Robert is buying lunch at Bob’s Burgers. The total cost of his purchase is $9. Brendan told that he had spent exactly 1½ of that amount at Frankenburger. How much did Brendan’s meal cost?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Mr. Johnson had to add the following fractions: 1⅞, 2⅜, and 4⅛? He estimated that the answer would be approximately 8. Is he correct? Why or why not?

**25Go On**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Stop**

Spiral Math Assessment 7-Answer Key

|  |  |
| --- | --- |
| Pt. 1: M.C.  1) C  2) B  3) C  4) B  5) A  6) A  7) B  8) C  9) D  10) A  11) D  12) B  13) D  14) B  15) C  16) C  17) D  18) A  19) A  20) D | Short and Extended Response  21) The artist will be using 1⅞ cups of paint.  22) No. His answer should have been 15/16.  23) They are the same because multiplying a number by ½ means you are finding half of that number. Dividing a number by 2 means the same thing.  24) Brendan’s meal cost $13.50 or 13½ dollars.  25) He is correct. He estimated 1⅞ as 2, 2⅜ as 2, and 4⅛ as 4. |

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

5th Grade

Spiral Assessment – Test 8

**Part 1:** Read each question carefully and place each answer on the appropriate line on the answer sheet.

**1**

Five friends share 3 bags of popcorn equally. What fraction of a bag of popcorn

does each friend get?

A)

B)

C)

D) 1

Ivan made 2 pieces of toast and cut each one into thirds. How many – toast

**2**

pieces did Ivan have?

A)

B)

C)

D) 6

Andy has yard of fabric. He cuts it into 3 equal pieces. What fraction of a

**3**

Yard is each piece of fabric?

A) yard

B) yard

C) yard

D) yard

Go On

**4**

Twelve friends share 4 pizzas equally. What fraction of a pizza does each

Friend get?



C)

D)

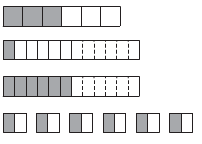
**5**

#### 

Brenda made a pound cake. She gave equal portions of ½ of the cake to 6

friends. What diagram could Brenda use to find the fraction of the whole

pound cake that each friend got?



A)

B)

C)

D)

**6**

Mara bought 9 yards of ribbon on a spool. She cut the ribbon into ½ yard pieces. Which equation represents the number of pieces of ribbon, *n,* Mara has now?

A) 9 ÷ ½ = *n*

B) ½ ÷ 9 = *n*

C) 2 ÷ 9 = *n*

D) 9 ÷ 2 = *n*

Go On

Jake is making a bread that calls for 5 cups of flour. He only has a ½-cup measuring cup. How many times will Jake need to fill the ½ - cup measuring cup to get the 5 cups of flour?

**7**

A)

B)

C) 7

1. 10

**8**

Which story can be represented by 3 ÷ ?

1. Carrie bought 3 pounds of turkey. She make sandwiches for a picnic and used ¼ pound of turkey in each sandwich. How many sandwiches did Carrie make?
2. Carrie made 3 sandwiches. She put ¼ pound of turkey in each sandwich. How many pounds of turkey did Carrie use?
3. Carrier bought ¼ pound of turkey. She made 3 sandwiches for a picnic. How many pounds of turnkey did Carrier put in each sandwich?
4. Carrie bought 3 pounds of turkey. She used ¼ pound to make a sandwich for a picnic. How many pounds of turkey does Carrier have left?

**9**

Josh solved ÷ 9 by using a related multiplication expression. Which

multiplication expression did he use?

1. 3 x 9

B) 3 x

C) x

D) x 9

Go On

A 6-mile walking trail has a distance marker every mile. How many distance markers are along the trail?

**10**

A) 18

B 9

C) 6

D) 2

Sherry wants to carpet the rectangular floor of her basement. The

**11**

basement has an area of 864 square feet. The width of the basement is

its length. What is the length of Sherry’s basement?

1. 24 feet

B) 36 feet

C) 48 feet

D) 576 feet

**12 Go On**

Allie is making a necklace with beads. She has 8 beads and buys 2 packages

with 25 beads in each package. She needs 45 beads for the necklace. She uses

the expression 8 + 25 x 2 – 45 to find how many beads she has left. How many

beads does Allie have left?

A) 3

B) 13

C) 21

D) 103

Go On

Marie drives 634 miles to visit her grandfather in Philadelphia. How miles

**13 Go On**

does Maria drive if she visits her grandfather 4 times?

A) 2,426 miles

B) 2,436 miles

C) 2,536 miles

D) 2,836 miles

**144Go On**

Tom filled up his car’s gas tank and then went on a trip. After he drove 329

miles, he filled his tank with 14 gallons of gas. If he drove the same number

of miles on each gallon of gas, how many miles per gallon did he drive?

1. 23 miles per gallon
2. 23 ½ miles per gallon
3. 24 miles per gallon
4. 24 ½ miles per gallon

The manager of a pet shelter received a shipment of 1,110 puppy blankets. He stored the blankets equally in 27 boxes and put the leftover blankets in the puppy kennels. How many blankets were put in the puppy kennels?

**15Go On**

1. 3
2. 18
3. 28
4. 41

Go On

Mr. Wheaton ordered 12 pizzas for the music class celebration. One-fourth of the pizzas had only mushrooms.

**16**

How many of the pizzas had only mushrooms?

A) 3

B) 4

C) 8

D) 9

Spencer bought 5 ½ pounds of carrots and 3 pounds of meat to make soup. How many pounds of carrots and meat did he buy in all?

17

A) 8 ¼ pounds

B) 8 pounds

C) 9 ¼ pounds

D) 9 pounds

Charlie bought a basketball for $23, a pair of sneakers for $35, and a cap

18

for $7. He wrote the equation 23 + 35 + 7 = 23 + 7 + 35. What property did

Charlie use?

1. Associative Property of Addition

B) Commutative Property of Addition

C) Distributive Property

D) Identity Property of 1

Go On

John collected 16.2 pounds of almonds from the trees on his farm. He will give the same weight of almonds to each of 12 friends. How many pounds of almonds will each friend get?

19

A)  0.135 pounds

B) 1.35 pounds

C)  13.5 pounds

D) 135 pounds

20

Laura bought a tray of plants for $8.15. There were 16 plants in the tray. If

Laura had bought only 1 plant, about how much would it have cost?

A) about $0.40

B) about $0.50

C) about $0.60

D) about $0.70

21

A hotel costs $89 per night. Sam will receive a $5 per night discount for

paying in advance. A rental car costs $35 per day plus taxes that total $4

per day. Which expression can Sam use to find how much he will pay for the

hotel and rental car for 5 days?

A) 5 x (89 – 5) – (35 + 4)

B) [5 x (89 – 5)] + (35 + 4)

C) 5 x [(89 – 5) – (35 + 4)]

D) 5 x [(89 – 5) + (35 + 4)]

Go On

Brian is getting materials for an experiment. His teacher gives him a

22

container that holds 0.25 liter of a red liquid. Brian needs to use 0.4 of this

liquid for the experiment. How much red liquid will Brian use?

1. 0.001 liter
2. 0.01 liter
3. 0.1 liter
4. 1 liter

A scientist at a preserve measured the length of a newborn lion cub as 15.5 centimeters. The cub’s mother was 9.5 times as tall as the length of the cub. How tall is the mother?

23

1. 14.725 centimeters
2. 25 centimeters
3. 147.25 centimeters
4. 1,472.5 centimeters

Paula is training for a marathon. She ran 4.6 miles on Friday and 6.75 miles on Saturday. On Sunday, she ran 13 miles. How much farther did she run on Sunday than she did on Friday and Saturday combined?

24

1. 1.65 miles
2. 6.25 miles
3. 11.35 miles
4. 24.35 miles

25

A flagpole in front of Pinewood Library is 18.375 feet tall. What is 18.375 rounded to the nearest tenth?

1. 18
2. 18.38
3. 18.4
4. 20

Go On

Part 2 Short and Extended Response

26

Carol uses 3 tablespoons of breadcrumbs in her recipe for turkey meatloaf. Today she needs to double the recipe. Her tablespoon measuring spoon is lost, so she will use a ½ - tablespoon measuring spoon instead. Explain how she can find the number of ½ - tablespoons of breadcrumbs she must measure.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27

Mr. White wrote the following problem on the board:

Lena and Fred shared pound of trail mix equally.

What fractional part of a pound did each one get?

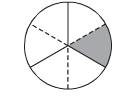
1. Maureen wrote the following equation to solve the problem:

2 ÷ = n

Do you agree with Maureen’s equation? Support your answer with information from the problem.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Ned drew this diagram to solve the problem. Can Ned use this diagram to find the fractional part of a pound of trail mix that each one got? Support your answer.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Go On

**Write** an equation to represent the problem. Then solve.

28

Benny has kilogram of grapes. He divides the grapes equally into 3 bags. What fraction of a kilogram of grapes is in each bag?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shawna has 3 adults and 2 children coming for a dessert party. She is going to serve 2 small cherry pies. If she plans to give each person, including herself, an equal amount of pie, how much pie will each person get? Explain and show your work.

29

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Go On

The chart below shows admission prices for the aquarium.

30

|  |  |
| --- | --- |
| Aquarium Admission | |
| Children (under 18) | $14 |
| Adults | $22 |

**Part A**

How much will it cost 10 adults and 20 children to visit the aquarium?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain how you found your answer.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part B**

Students in a school group receive a discount of $3 off each student admission price. How much will admission cost a school group of 26 students?

Explain how you found your answer.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part C**

How many adults visited the aquarium if the adult admissions totaled $5236? Explain how you found your answer.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Stop

Grade 5 Spiral Assessment Test 8 Answer Sheet

|  |  |
| --- | --- |
| 1. B 2. D 3. A 4. B 5. B 6. A 7. D 8. A 9. C 10. A 11. B 12. B 13. C 14. B 15. A 16. A 17. C 18. B 19. B 20. B 21. D   22. C  23. C  24. A  25. C | Part 2 Short and Extended Response  26. 3 x 1/2 = 6  27. Maureen is wrong. 1/3 divided by 2 = 1/6.  Ned is correct.  28. ÷ 3 = n; x = n  n = ; kilogram  29. Each person will get of a pie. 2 ÷ 6 = =  30. A - (10 x $22) + (20 x $14) = $500  B – 11 x $26 = $286 C - $5236 divided by $22 = 238 adults |

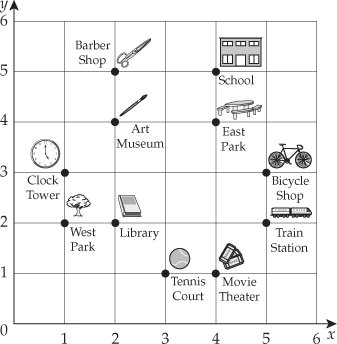
Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

Spiral Assessment Test 9

Part 1: Read each question carefully and place each answer on the appropriate line on the answer sheet.

Use this map that Lindsey made of her town to answer questions 1 and 2.



**1**

Which place in Lindsey’s town is located at (4, 5)?

Description: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg A) East Park

B) West Park

C) Barber Shop

1. School

**2**

Which ordered pair describes the location of the Art Museum?

A) (2, 4)

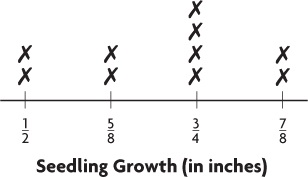
B) (2, 5)

C) (4, 4)

D) (5, 2)

Go On

Use the following line plot to answer questions 3 and 4. Teresa measured the heights of the seedlings she was growing. She made a line plot to record the data.



What was the total growth, in inches, of Teresa’s seedlings?

**3**

A) 5⅝

B) 5⅞

C) 6

D) 6⅛

**4**

What was the average height, in decimals, of the seedlings Teresa measured?

A) .07

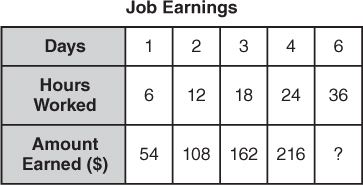
B) .70

C) 70

D) 7.0

Go on

Dillon made a table to figure out how much he earns at his job.



**5**

What is a rule that relates days to the amount earned?

A) Add 6

B) Add 54

C) Multiply by 9

D) Multiply by 54

**6**

Suppose Dillon works 6 days. Using a rule that relates the hours worked to the amount earned, find the amount earned if he works 36 hours.

A) $270

B) $285

C) $324

D) $648

Go On

Arlene made a table showing how much she earned each month from babysitting.



**7**

What are the most appropriate scale and interval to use if Arlene makes a line graph of the data?

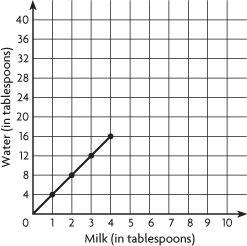
A) Scale: 0 to 50, Interval: 2

B) Scale: 0 to 50, Interval: 5

C) Scale: 0 to 100, Interval: 10

D) Scale: 0 to 100, Interval: 20

The graph shows the relationship between the amount of milk and water used in a recipe.



**8**

What rule relates the amount of milk to the amount of water?

A) Multiply the amount of milk by 4.

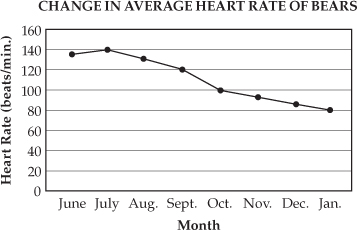
B) Multiply the amount of milk by 2

C) Multiply the amount of milk by Description: Ask Your Teacher. Description: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

1. Multiply the amount of milk by Description: Ask Your Teacher.

Go on

A scientist made a line graph that shows how a bear’s average heart rate changes over time.



**9**

In what month is a bear’s average heart rate about 130 beats per minute?

A) June

B) July

C) August

D) September

**10**

Based on the graph, what statement is true?

1. A bear’s average heart rate rarely changes.

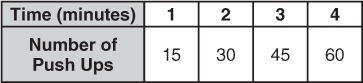
B) A bear’s average heart rate increases over time.

C) A bear’s average heart rate starts to decrease at the end of the summer.

D) A bear’s average heart rate is at its lowest in the summer.

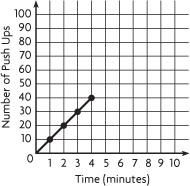
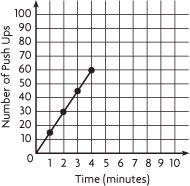
Go on

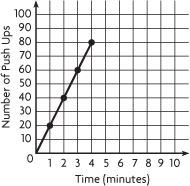
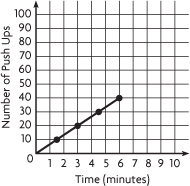
Nicholas recorded the total number of pushups he did each minute for 4 minutes.



**11**

Which graph shows the relationship between time and the number of push-ups that Nicholas did?

1. Description: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg    B) 

1. Description: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg D) Description: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

**12 Go On**

Jake is buying a new mountain bike on layaway for $297. If he makes a down payment of $25 and pays $34 each week, how many weeks will it take Jake to pay for the bike?

1. 8 weeks.

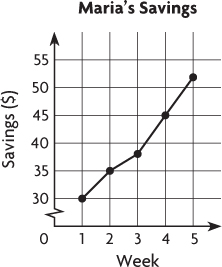
B) 9 weeks

C) 11 weeks

D) 12 weeks

Go on

Each week, Maria saves some of her allowance. The line graph shows the amounts in Maria’s savings account for the first 5 weeks of the year.



Which ordered pair names the data point for Week 4?

A) (45, 4)

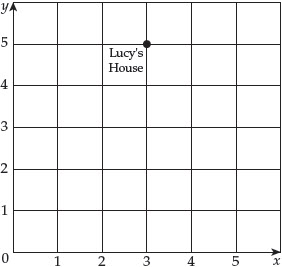
B) (4, 45)

C) (4, 15)

D) (15, 4)

**13 Go On**

On a coordinate map, Kerry’s house is located at the point shown.



**144Go On**

Which ordered pair describes the location of Kerry’s house?

A) (5, 3)

B) (5, 5)

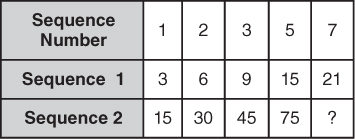
C) (6, 4)

D) (3, 5)

Go on

**15Go On**

What is the unknown number in Sequence 2 in the chart?



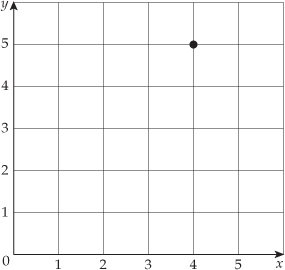
1. 63

B) 90

C) 105

D) 150

James plotted a point at (4, 5).



**16Go On**

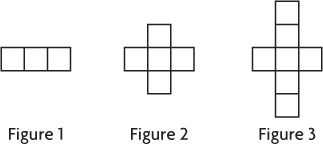
Which point is a distance of 3 vertical units from the point James plotted?

1. (4, 2)Description: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg
2. (5, 2)
3. (5, 4)
4. (4, 4)Description: http://www-k6.thinkcentral.com/ePC/images/Spacer15.jpg

Go on

Which expression could describe the next figure in the pattern, Figure 4, if the pattern continues?

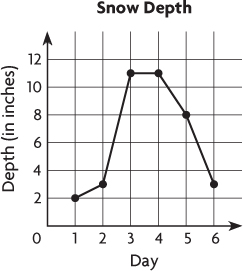
**17Go On**



1. 3 × 4
2. 3 + 2 + 2
3. 3 + 2 + 2 + 2
4. 3 + 3 + 3 + 3

For 6 days in a row, Olivia measured, in inches, the snow depth in a shaded area of her backyard. The line graph shows her data. Between which two days did the snow depth change the least?

**18Go On**



1. between Day 1 and Day 2
2. between Day 2 and Day 3
3. between Day 3 and Day 4
4. between Day 5 and Day 6

Go on

Use the following line plot to answer questions 19 & 20.

A builder is buying property where she can build new houses. The line plot shows the sizes of the lots for each house.



**19 On**

How many acres does the builder buy?

1. 3 acres
2. 5 acres
3. 6 acres
4. 12 acres

**20On**

According to the line plot, what is the average size of the lots?

A) 1/12 acre

B) 1/6 acre

C) 1/3 acre

D) 1/2 acre

**21**

Melinda, Zachary, and Heather went to the mall to shop for school supplies. Melinda spent $14.25 on her supplies. Zachary spent $2.30 more than Melinda spent. Heather spent 2 times as much money as Zachary spent. How much did Heather spend on school supplies?

A) $4.60

B) $16.55

C) $28.50

D) $33.10

Go on

Nicole baked 9 trays of cookies. Each tray had 5 rows with 4 cookies in each row. Nicole wrote the equation (9 × 5) × 4 = 9 × (5 × 4). What property did Nicole use?

**221**

A) Commutative Property of Multiplication

B) Associative Property of Addition

C) Associative Property of Multiplication

D) Distributive Property

A printing company used 1,896,432 sheets of tag board last year. What is the value of the digit 8 in 1,896,432?

**231**

A) 800,000

B) 8 million

C) 80 thousand

D) 80,000

**241**

Five friends share 3 bags of trail mix equally. What fraction of a bag of trail mix does each friend get?

A) 3/8

B) 3/5

C) 2/3

D) 9/5

**251**

Louis wants to carpet the rectangular floor of his basement. The basement has an area of 864 square feet. The width of the basement is Description: Ask Your Teacher its length. What is the length of Louis’s basement?

A) 24 feet

B) 36 feet

C) 48 feet

D) 576 feet

Go on

Part 2 Short and Extended Response

**26**

Timothy multiplied ⅝ by 1½. He came up with 1¼ as an answer. Is he correct? Why or why not?

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**27**

¼ ÷ 2 = ⅛ and ¼ × ½ = ⅛. Describe why dividing by 2 is the same as multiplying by ½.

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**28**

Vincent is buying lunch at Bob’s Burgers. The total cost of his purchase is $9. Brendan told Vincent that he had spent exactly 1½ of that amount at Frankenburger. How much did Brendan’s meal cost?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Go On

Mr. Johnson had to add the following fractions: 1⅞, 2⅜, and 4⅛? He estimated that the answer would be approximately 8. Is he correct? Why or why not?

**29Go On**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**30Go On**

Peter ran 6 and a half miles last Saturday. He averaged a pace of 4.8 minutes per mile. How long did it take Peter to run the 6 and a half miles?

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Stop

Spiral Math Assessment 9-Answer Key

|  |  |
| --- | --- |
| Pt. 1 M.C.  1) B  2) C  3) C  4) C  5) B  6) A  7) D  8) D  9) B  10) D  11) C  12) A  13) A  14) D  15) C  16) A  17) C  18) C  19) B  20) C  21) D  22) C  23) A 24) B  25) B | Short and Extended Response  26) No. His answer should have been 15/16.  27) They are the same because multiplying a number by ½ means you are finding half of that number. Dividing a number by 2 means the same thing.  28) Brendan’s meal cost $13.50 or 13½ dollars.  29) He is correct. He estimated 1⅞ as 2, 2⅜ as 2, and 4⅛ as 4.  30) 4.8 X 6.5 = 31.2 |

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade

**Spiral Assessment - Test 10**

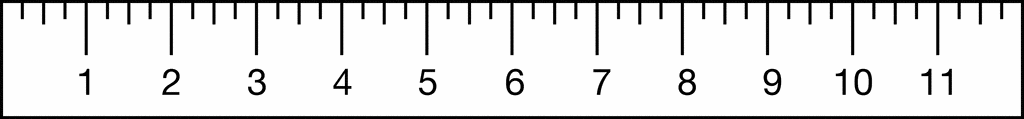
**Part 1**

Read each question carefully and place each answer on the appropriate line on the answer sheet. You may not use a calculator on this part of the test.

**1**

Yuri went to the pet store and bought this goldfish. What is the length of the goldfish in inches? (Not drawn to scale)

MCAN04152_0000[1]



(Not drawn to scale)

1. 7 inches
2. 5 inches
3. 2 inches
4. 11 inches

Sarah is 53 inches tall. Sarah’s brother, Luke, is 4 inches taller that she is. What is Luke’s height in feet and inches?

**2**

1. 4 feet 7 inches
2. 4 feet 9 inches
3. 5 feet 7 inches
4. 5 feet 8 inches

**Go On**

**MCj03839720000[1]Use your ruler to help you solve this problem.**

**3**

The nine-spotted ladybug is the state insect of New York. It is usually red with black spots or black with red spots. The ladybugs eat many garden pests. Below is a picture of an adult nine-spotted ladybug. How large is the average adult ladybug?

|  |  |  |  |
| --- | --- | --- | --- |
| A) | in. | C) | in. |
| B) | in. | D) | 1 in. |

****

Which expression is true?

**4**

A) > 0.4

B) > 0.2

C) < 0.2

D) < 0.4

Which of these are customary units used to measure length?

**5**

|  |  |  |  |
| --- | --- | --- | --- |
| A) | foot and gallon | C) | foot and mile |
| B) | meter and mile | D) | yard and centimeter |

**Go On**

It takes Kate 10 minutes to walk to the bus stop. How many seconds does it take her to walk to the bus stop?

**6**

1. 6,000 seconds
2. 600 seconds
3. 60 seconds
4. 6 seconds

Which choice is equivalent to a length of 30 centimeters of ribbon?

**7**

|  |  |  |  |
| --- | --- | --- | --- |
| A) | 3 mm | C) | 3 m |
| B) | 300 mm | D) | 30 m |

**8**

Mrs. Davis has 64 bottles of water. If each bottle hold 1 pint of water, how many gallons of water does Mrs. Davis have?

1. 4 gallons
2. 6 gallons
3. 8 gallons
4. 32 gallons

Ellen bought 3 pints of orange juice. How many cups of orange juice did she buy?

**9**

1 pint = 2 cups

A) 6

B) 2

C) 12

D) 18

**Go On**

Mr. Smith has a garden. In the garden, 8% of his plants are tomatoes. What fraction of the plants are tomatoes?

**10**

A) 

B) 

C) 

D) 

**11**

A beanstalk is 1 **** feet long. If the beanstalk grows 1 foot longer, what will its length be in inches?

1 foot = 12 inches

A) 32 inches

B) 40 inches

C) 30 inches

D) 42 inches

**12**

Devon uses 64 inches of ribbon to make 1 bow. How many yards of ribbon does Devon need to make 9 bows?

1. 8 yards
2. 16 yards
3. 24 yards
4. 48 yards

**Go On**

**13Go On**

Julio is 3 feet 11 inches tall. How many inches tall is Julio?

1 foot = 12 inches

A) 47 inches

B) 36 inches

C) 55 inches

**14Go On**

D) 60 inches

Which of the following are three correct degree measures for the interior

angles of a triangle?

A) 45°, 45°, 45°

B) 90°, 90°, 45°

C) 90°, 45°, 90°

D) 45°, 90°, 45°

**15Go On**

Students picked 576 ounces of apples to make apple cider. How many pounds of apples did they pick?

1. 16 pounds
2. 36 pounds
3. 48 pounds
4. 9,216 pounds

**16Go On**

Ed bought 3 liters of water, 2750 milliliters of sports drink, and 2.25 liters of juice. Which statement is true?

1. Ed bought 50 milliliters more sports drink than juice
2. Ed bought 1.25 liters more water than juice
3. Ed bought 75 milliliters more water than juice
4. Ed bought 250 milliliters more water than sports drink

**Go On**

Laura’s backpack has a mass of 20,000 grams. What is the mass of Laura’s backpack in kilograms?

**17Go On**

1. 2 kilograms
2. 20 kilograms
3. 200 kilograms
4. 2,000 kilograms

When it is full, a fish tank holds 15 gallons of water. Jordan is using a 1-pint container to fill the fish tank. How many 1-pint containers of water will Jordan need to fill the fish tank?

**18Go On**

1. 30
2. 60
3. 90
4. 120

Sofia used 3.25 meters of fabric to make a costume. How many centimeters of fabric did she use?

**19Go On**

1. 0.325 centimeters
2. 3.25 centimeters
3. 32.5 centimeters
4. 325 centimeters

**20Go On**

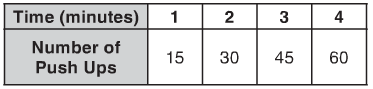
The high school football game started at 7:15 p.m. and ended at 10:44 p.m. How long did the game last?

1. 3 hours 29 minutes
2. 3 hours 9 minutes
3. 2 hours 29 minutes
4. 2 hours 9 minutes

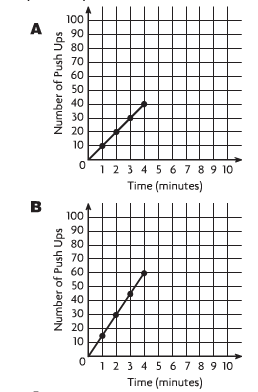
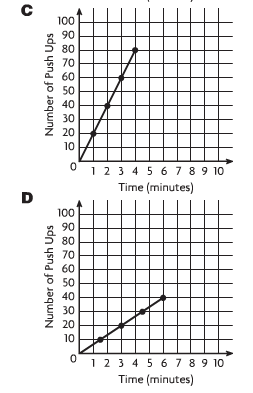
**Go On**

Eric recorded the total number of push ups he did each minute for 4 minutes.

**21 Go On**



Which graph shows the relationship between time and the number of push ups that Eric did?



**Go On**

Which story can be represented by 6 ÷ ?

**22Go On**

1. Rita has a piece a piece of ribbon that is foot long. She cuts it into 6 pieces, each the same length. How many feet long is each piece of ribbon?
2. Rita has 6 pieces of ribbon. Each piece is foot long. How many feet of ribbon does Rita have in all?
3. Rita has a piece of ribbon that is 6 feet long. She cuts it into pieces that are foot long. How many pieces of ribbon does Rita have?
4. Rita has a piece of ribbon that is 6 feet long. She cuts it into 3 pieces. Haw many feet long is each piece of ribbon?

Plaza Pizza sells large pizzas for $10. Each additional topping costs $2. Mr. Perkins is buying 1 large pizza with 3 additional toppings. He will pay with a $20 bill. He used the expression 20 – 10 – 3 × 2 to find how much change he should receive. How much change should Mr. Perkins receive?

**23 Go On**

1. $2
2. $4
3. $6
4. $14

**Go On**

Julia’s sunflower plant was 64.34 centimeters tall in July. During August, the plant grew 58.7 centimeters. How tall was Julia’s sunflower plant at the end of August?

**24 Go On**

1. 702.1 centimeters
2. 123.04 centimeters
3. 70.21 centimeters
4. 58.7 centimeters

Kate made 180 ounces of punch for a party. She serves the punch in 8-ounce cups. How many full cups can she serve?

**25 Go On**

1. 8 cups
2. 22 cups
3. 22 ½ cups
4. 23 cups

Part 2 Short and Extended Responses

Dan wants to buy pencils. He needs 20 pencils. There are 5 pencils to a box. The pencil boxes cost $3.90 each. Estimate how much Dan would spend on pencils.

**26 Go On**

**Answer: $\_\_\_\_\_\_\_\_\_\_**

On the lines below, explain the steps you used to solve this problem.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Go On**

1. List the factors of 9.

**277Go On**

**Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. List the factors of 36.

**Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What are the common factors of 9 and 36?

**Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What is the greatest common factor (GCF) of 9 and 36?

Answer: \_\_\_\_\_\_\_\_\_

**Go On**

Kelly is having a party. She wants to make punch and have everything set up before the guest arrive at 1:30 p.m. Kelly estimates it will take her 35 minutes to make the punch and 45 minutes to set up. Will Kelly finish before the guests arrive if she starts at 11:45 a.m.? Explain your answer.

**28 Go On**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Draw all the possible lines of symmetry on the figure below.

**29On**

**Go On**

Kevin and Yuki are writing number patterns. Yuki wrote the following sequence.

**30On**

35.9, 34.7, 33.5, \_\_\_\_\_\_, 31.1

**Part A**

Write the rule for the pattern.

***Show your work.***

***Rule\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

**Part B**

What is the unknown term in the sequence?

***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*answer**

**STOP**

|  |  |
| --- | --- |
| Spiral Math Assessment 10 -Answer Key   1. A 2. B 3. A 4. B 5. C 6. B 7. B 8. C 9. A 10. D 11. C 12. B 13. A 14. D 15. B 16. D 17. B 18. D 19. D 20. A 21. B 22. C 23. B 24. B 25. B | **Part II**  26. $16.00  Explanation $3.90 rounds to $4 and $4 times 4 = $20  Students must estimate first. They cannot multiply, then  round.  27. A) 1, 3, 9  B) 1, 2, 3, 4, 6, 9, 12, 18, 36  C) 1, 3, 9  D) 9   1. Yes, logical explanation 2. 3 lines of symmetry 3. A) Rule: subtract 1.2   B) 32.3 |