**Test #1 7th Grade Honors**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

\_\_\_\_ 1. Which number is an irrational number?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1. | c. |  |
| b. | 4 | d. | 2.34523243.... |

\_\_\_\_ 2. What is  as a mixed number?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1 | c. | 1.08 |
| b. | 1 | d. | 1 |

\_\_\_\_ 3. Mark bought 8 tomatoes for $3.89 at a farm stand. What is the price per tomato to the nearest cent?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 0.48 | c. | $ 0.49 |
| b. | $ 0.48625 | d. | $ 0. 486 |

\_\_\_\_ 4. Corey works at Dunkin Donuts. She worked for 27 hours last week and was paid $203. How much did Corey earn per hour to the nearest cent?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 7.00 | c. | $ 7.52 |
| b. | $ 7.51 | d. | $ 8.00 |

\_\_\_\_ 5. Which set of rational numbers are in order greatest to least?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | (- 3, - 3, - 2, - 2.18) | c. | (- 2, - 2.18, - 3, - 3) |
| b. | (- 3, - 3, - 2.18, - 2) | d. | (- 2.18, - 2, - 3, - 3) |

\_\_\_\_ 6. A scuba diver descended 12 feet, 9 feet, and 13 feet. The total number of feet can be represented using the expression  +  + . What is the total number of feet the scuba diver descended?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 34 feet | c. | 33 feet |
| b. | -34 feet | d. | -21 feet |

\_\_\_\_ 7. Which of the following statements about these real-world situations is not true?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | A loss of 7 yards in a football game can be represented by -7. | c. | a submarine diving 200 feet under water can be represented by +200. |
| b. | A temperature of 10 below zero can be represented by -10. | d. | a $120 check deposited in a bank can be represented by +120. |

\_\_\_\_ 8. Wilbur is going to summer camp. The table below shows the cost of items he will need to purchase with the camp logo.

|  |  |
| --- | --- |
| Item | Cost ($) |
| T-shirt | 7.00 |
| Shorts | 5.50 |
| Socks | 3.25 |

Wilbur needs to buy five of each item. Which expression below cannot be used to find the total cost of the items?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5(15.75) | c. | 5(7.00) + 5(5.50) + 5(3.25) |
| b. | 5(7.00) + 5.50 + 3.25 | d. | 5(7.00 + 5.50 + 3.25) |

\_\_\_\_ 9. Which property is demonstrated in the equation below?

7 + (-7) = 0

|  |  |  |  |
| --- | --- | --- | --- |
| a. | additive inverse property | c. | Commutative property of addition |
| b. | additive identity property | d. | Associative property of addition |

\_\_\_\_ 10. In the New York City Marathon, Joseph finished in 3 hours and Robert finished in 3 hours. How much more time did it take Robert to finish the marathon then Joseph?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | hour | c. | - |
| b. | 0.6 hour | d. |  |

\_\_\_\_ 11. The temperature in New York on any February day ranges from -3F to 58F. What is the difference between the maximum and minimum temperatures?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 61F | c. | 58F |
| b. | 55F | d. | -61F |

\_\_\_\_ 12. Andy bought 3 pounds of popcorn, which he divided among several bags. Each bag contained  pound of popcorn. How many bags of popcorn did Andy make?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12 | c. | 11 |
| b. | 8 | d. | 10 |

\_\_\_\_ 13. At 6 am, the temperature was 4F below zero. By noon, the temperature rose 18F and by 8 pm, dropped 10F. What was the temperature at 8 pm?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12F above zero | c. | 4F above zero |
| b. | 12F below zero | d. | 4F below zero |

\_\_\_\_ 14. Austin burns 679 calories when he runs for 1 hour. If Austin ran 4 hours last week, then how many calories did he burn? (Round your answer to the nearest hundredths place.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3,195.30 calories | c. | 3,195.28 calories |
| b. | 3,195.294 calories | d. | 3,195.29 calories |

\_\_\_\_ 15. Which statement is true?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | (4 + 3) + 1 = 4 + (3 + 1) | c. | 8.7 + 1 = 8.7 |
| b. | -6 + (-12) = (-12) + 6 | d. | (0 +) = |

**Short Answer**

16. The table below shows the points that each student lost on the first math test. Each question on the test was worth an equal number of points. If Kobe answered 7 questions incorrectly, how many questions did Cindy answer incorrectly? Explain how you got your answer.

|  |  |
| --- | --- |
| Student | Points |
| Kobe | -42 |
| Cindy | -30 |
| Charles | -12 |

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

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17. A running back is tackled for a loss of 6 yards. On the next play, he runs for 13 yards. Then he gets tackled again for a loss of 5 yards on the third play. Write an addition expression to describe the situation. Then find the sum.

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

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18. Brooke is finding (-1.5)(-2)(-). She writes down (-1.5)(-2)(-) = 13.75. Find her mistake and correct it. Explain your answer.

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19. Plot and label each point on the number line.

2, -, -3., , -4.98



20. Use , , or = to compare the numbers.

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

**Test #1 7th Grade Honors**

**Answer Section**

**MULTIPLE CHOICE**

1. ANS: D PTS: 1

2. ANS: A PTS: 1

3. ANS: C PTS: 1

4. ANS: C PTS: 1

5. ANS: D PTS: 1

6. ANS: A PTS: 1

7. ANS: C PTS: 1

8. ANS: B PTS: 1

9. ANS: A PTS: 1

10. ANS: A PTS: 1

11. ANS: A PTS: 1

12. ANS: D PTS: 1

13. ANS: C PTS: 1

14. ANS: D PTS: 1

15. ANS: A PTS: 1

**SHORT ANSWER**

16. ANS:

5

PTS: 1

17. ANS:

-6 + 13 + -5

2

PTS: 1

18. ANS:

-13.75

PTS: 1

19. ANS:

-4.98, -3., -, 2, 

PTS: 1

20. ANS:

=

PTS: 1

**Test #1 7th Grade**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

\_\_\_\_ 1. Which number is an irrational number?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1. | c. |  |
| b. | 4 | d. | 2.34523243.... |

\_\_\_\_ 2. What is  as a mixed number?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1 | c. | 1.08 |
| b. | 1 | d. | 1 |

\_\_\_\_ 3. Until recently, share prices at the New York Stock Exchange were displayed using fractions. What is the equivalent decimal value of a stock whose share price was $3?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3.825 | c. | 3.625 |
| b. | 3.58 | d. | 3 |

\_\_\_\_ 4. Corey works at Dunkin Donuts. She worked for 27 hours last week and was paid $203. How much did Corey earn per hour to the nearest cent?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 7.00 | c. | $ 7.52 |
| b. | $ 7.51 | d. | $ 8.00 |

\_\_\_\_ 5. Which set of rational numbers are in order greatest to least?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | (3, 3, 2, 2.18) | c. | (2, 2.18, 3, 3) |
| b. | (3, 3, 2.18, 2) | d. | (2.18, 2, 3, 3) |

\_\_\_\_ 6. A scuba diver descended 12 feet, 9 feet, and 13 feet. The total number of feet can be represented using the expression  +  + . What is the total number of feet the scuba diver descended?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 34 feet | c. | 33 feet |
| b. | -34 feet | d. | -21 feet |

\_\_\_\_ 7. Which of the following statements about these real-world situations is not true?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | A loss of 7 yards in a football game can be represented by -7. | c. | a submarine diving 200 feet under water can be represented by +200. |
| b. | A temperature of 10 below zero can be represented by -10. | d. | a $120 check deposited in a bank can be represented by +120. |

\_\_\_\_ 8. Evaluate 8 + 1.75 - 

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5 | c. | 14 |
| b. | 5 | d. | 2 |

\_\_\_\_ 9. Which property is demonstrated in the equation below?

7 + (-7) = 0

|  |  |  |  |
| --- | --- | --- | --- |
| a. | additive inverse property | c. | Commutative property of addition |
| b. | additive identity property | d. | Associative property of addition |

\_\_\_\_ 10. In the New York City Marathon, Joseph finished in 3 hours and Robert finished in 3 hours. How much more time did it take Robert to finish the marathon then Joseph?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | hour | c. | - |
| b. | 0.6 hour | d. |  |

\_\_\_\_ 11. The temperature in New York on any February day ranges from -3F to 58F. What is the difference between the maximum and minimum temperatures?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 61F | c. | 58F |
| b. | 55F | d. | -61F |

\_\_\_\_ 12. Andy bought 3 pounds of popcorn, which he divided among several bags. Each bag contained  pound of popcorn. How many bags of popcorn did Andy make?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12 | c. | 11 |
| b. | 8 | d. | 10 |

\_\_\_\_ 13. At 6 am, the temperature was 4F below zero. By noon, the temperature rose 18F and by 8 pm, dropped 10F. What was the temperature at 8 pm?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12F above zero | c. | 4F above zero |
| b. | 12F below zero | d. | 4F below zero |

\_\_\_\_ 14. Austin burns 679 calories when he runs for 1 hour. If Austin ran 4 hours last week, then how many calories did he burn? (Round your answer to the nearest hundredths place.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3,195 calories | c. | 144 calories |
| b. | 3,195.294 calories | d. | 3,195.29 calories |

\_\_\_\_ 15. Which statement is true?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | (4 + 3) + 1 = 4 + (3 + 1) | c. | 8.7 + 1 = 8.7 |
| b. | -6 + (-12) = (-12) + 6 | d. | (0 +) = |

**Short Answer**

16. The table below shows the points that each student lost on the first math test. Each question on the test was worth an equal number of points. If Kobe answered 7 questions incorrectly, how many questions did Cindy answer incorrectly? Explain how you got your answer.

|  |  |
| --- | --- |
| Student | Points |
| Kobe | -42 |
| Cindy | -30 |
| Charles | -12 |

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

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17. A running back is tackled for a loss of 6 yards. On the next play, he runs for a gain of 13 yards. Then he gets tackled again for a loss of 5 yards on the third play. Write an addition expression to describe the situation. Then find the sum.

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

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18. Brooke is finding (-1.5)(-2)(-). She writes down (-1.5)(-2)(-) = 13.75. Find her mistake and correct it. Explain your answer.

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

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19. Plot and label each point on the number line.

2, -, -3., , -4.98



20. Use , , or = to compare the numbers.

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

**Test #1 7th Grade**

**Answer Section**

**MULTIPLE CHOICE**

1. ANS: D PTS: 1

2. ANS: A PTS: 1

3. ANS: C PTS: 1

4. ANS: C PTS: 1

5. ANS: A PTS: 1

6. ANS: A PTS: 1

7. ANS: C PTS: 1

8. ANS: B PTS: 1

9. ANS: A PTS: 1

10. ANS: A PTS: 1

11. ANS: A PTS: 1

12. ANS: D PTS: 1

13. ANS: C PTS: 1

14. ANS: D PTS: 1

15. ANS: A PTS: 1

**SHORT ANSWER**

16. ANS:

5

PTS: 1

17. ANS:

-6 + 13 + -5

2

PTS: 1

18. ANS:

-13.75

PTS: 1

19. ANS:

-4.98, -3., -, 2, 

PTS: 1

20. ANS:

=

PTS: 1

**Test # 2 7th Grade Honors**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

\_\_\_\_ 1. The table below shows how long Jillian exercised each day.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Day | Tuesday | Wednesday | Thursday | Friday |
| Time Exercised  (hour) |  |  |  |  |

What is the ratio of the time Jillian exercised on Wednesday to the time she exercised on Friday?

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 2. Convert 7.825 to a mixed number.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 7 | c. |  |
| b. | 7 | d. | 7 |

\_\_\_\_ 3. Arnold walked  mile in 9 minutes. What is the unit rate in miles per minute?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 7 mile per minute | c. | mile per minute |
| b. | 12 mile per minute | d. | mile per minute |

\_\_\_\_ 4. A hawk can fly 408 kilometers per hour. How many meters per hour can the hawk fly?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 0.408 meters per hour | c. | 408,000 meters per hour |
| b. | 408 meters per hour | d. | 40,800 meters per hour |

\_\_\_\_ 5. Dan can run at a rate of 8 yards per second. About how many miles per hour can Dan run? (Round your answer to the nearest tenths place.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 16.4 miles per hour | c. | 2.1 miles per hour |
| b. | 0.3 miles per hour | d. | 3.9 miles per hour |

\_\_\_\_ 6. The currency in Argentina is the Peso. The exchange rate is approximately $3 = 1 Peso. At this rate. how many Pesos would you get if you exchanged $191.14? (Round your answer to the nearest Peso)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 64 Pesos | c. | 567 Pesos |
| b. | 63 Pesos | d. | 0.02 Pesos |

\_\_\_\_ 7. Mrs. Smith paid $10.75 for 1 pounds of ham. How much would Mrs. Smith pay for 4 pounds of ham? (Round your answer to the nearest cent)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $4.03 | c. | $28.67 |
| b. | $21.50 | d. | $29.00 |

\_\_\_\_ 8. Rita drew an accurate map showing her house and her friend Kim’s house. The scale on the map is 1 centimeter =  mile. If the actual distance from her house to Kim’s house is 3 miles, what is the map distance, in centimeters?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 9 cm | c. | 11 cm |
| b. | 1 cm | d. | cm |

\_\_\_\_ 9. A statue that is 16 ft. tall casts a shadow that is 23 ft. long. Find the length of the shadow that a 6 ft. person casts. (Round your answer to the nearest tenth.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4.2 ft. | c. | 8 ft. |
| b. | 8.6 ft. | d. | 8.7 ft. |

\_\_\_\_ 10. Which set of rational numbers are in order least to greatest?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | - , - 3., - , - 3 | c. | - , - 3, - 3., - |
| b. | - 3, - 3., - , - | d. | - 3, - , - 3., - |

\_\_\_\_ 11. Which of the following expressions is equivalent to the expression below?

22a + 22b

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 22(a + b) | c. | 22a + b |
| b. | 22ab | d. | a + 22b |

\_\_\_\_ 12. At 7 am, the temperature was 3F below zero. By 1 pm, the temperature rose 15F and by 7 pm, dropped 9F. What was the temperature at 7 pm?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 27F | c. | 21F |
| b. | 3F | d. | 5F |

\_\_\_\_ 13. Bruce burns 785 calories when he runs for 1 hour. If Bruce ran 3 hours last week, then how many calories did he burn? (Round your answer to the nearest hundredths place.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2,849.25 calories | c. | 216.28 calories |
| b. | 2,849.26 calories | d. | 2,800 calories |

\_\_\_\_ 14. In 2008, Leaping Phil set a long jump world record of 9.07 meters. In 2012, Jumping Jack surpassed Leaping Phil by jumping 9 meters. How much farther did Jumping Jack jump than Leaping Phil?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | -0.63 meters | c. | 0.73 meters |
| b. | meters | d. | 0.63 meters |

\_\_\_\_ 15. A baker’s dozen is 12 bagels plus one more bagel. If a baker’s dozen cost $9.99, what is the unit price? (Round your answer to the nearest cent)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 0.77 | c. | $ 0.76 |
| b. | $ 0.80 | d. | $ 0.83 |

**Short Answer**

16. Jeff is looking to buy cookies for his daughter’s sweet sixteen party. He goes to three different bakeries. Dortoni’s Bakery offers 24 cookies for $18.99. Levittown Parkway Bakery offers 20 cookies for $16.75. Butter Cookies Bakery offers 28 cookies for $20.75. Which bakery offers the better buy for Jeff’s daughter’s sweet sixteen party? Explain how you got your answer.

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17. The Woodland Middle School baseball team won 7 of its first 12 games. The team later won 14 of its last 22 games. Do these ratios form a proportion? Show your work.

18. Mr. Gropf’s car gets 18 miles per gallon.

a) Write an equation that shows the total number of miles, m, Mr. Gropf can drive on g gallons of gas?

b) If Mr. Gropf uses up 3 gallons of gas, how many total miles has Mr. Gropf driven?

19. Stubhub charges $25 per Mets baseball game ticket plus a $6 processing fee per order. Is the cost of an order proportional to the number of tickets ordered? Explain.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cost ($) | 31 | 56 | 81 | 106 |
| Tickets Ordered | 1 | 2 | 3 | 4 |

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

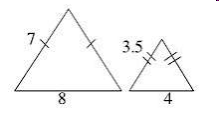
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20. Determine whether the lengths of the corresponding sides of the figures below form a proportional relationship.



**Test # 2 7th Grade Honors**

**Answer Section**

**MULTIPLE CHOICE**

1. ANS: D PTS: 1

2. ANS: D PTS: 1

3. ANS: C PTS: 1

4. ANS: C PTS: 1

5. ANS: A PTS: 1

6. ANS: A PTS: 1

7. ANS: C PTS: 1

8. ANS: C PTS: 1

9. ANS: B PTS: 1

10. ANS: D PTS: 1

11. ANS: A PTS: 1

12. ANS: B PTS: 1

13. ANS: B PTS: 1

14. ANS: D PTS: 1

15. ANS: A PTS: 1

**SHORT ANSWER**

16. ANS:

Butter Cookies Bakery

PTS: 1

17. ANS:

No

PTS: 1

18. ANS:

m = 18g

60 miles

PTS: 1

19. ANS:

No

PTS: 1

20. ANS:

Yes

PTS: 1

**Test #2 7th Grade**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

\_\_\_\_ 1. The table below shows how long Jillian exercised each day.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Day | Tuesday | Wednesday | Thursday | Friday |
| Time Exercised  (hour) |  |  |  |  |

What is the ratio of the time Jillian exercised on Wednesday to the time she exercised on Friday?

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 2. Convert 7.825 to a mixed number.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 7 | c. |  |
| b. | 7 | d. | 7 |

\_\_\_\_ 3. Arnold walked  mile in 9 minutes. What is the unit rate in miles per minute?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 7 mile per minute | c. | mile per minute |
| b. | 12 mile per minute | d. | mile per minute |

\_\_\_\_ 4. A hawk can fly 408 kilometers per hour. How many meters per hour can the hawk fly?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 0.408 meters per hour | c. | 408,000 meters per hour |
| b. | 408 meters per hour | d. | 40,800 meters per hour |

\_\_\_\_ 5. Dan can run at a rate of 8 yards per second. About how many miles per hour can Dan run? (Round your answer to the nearest tenths place.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 16.4 miles per hour | c. | 2.1 miles per hour |
| b. | 0.3 miles per hour | d. | 3.9 miles per hour |

\_\_\_\_ 6. The currency in Argentina is the Peso. The exchange rate is approximately $3 = 1 Peso. At this rate. how many Pesos would you get if you exchanged $191.14? (Round your answer to the nearest Peso)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 64 Pesos | c. | 567 Pesos |
| b. | 63 Pesos | d. | 0.02 Pesos |

\_\_\_\_ 7. Solve for p.

 = 

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 37 | c. | 35 |
| b. | 7 | d. | 53 |

\_\_\_\_ 8. Rita drew an accurate map showing her house and her friend Kim’s house. The scale on the map is 1 centimeter =  mile. If the actual distance from her house to Kim’s house is 3 miles, what is the map distance, in centimeters?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 9 cm | c. | 11 cm |
| b. | 1 cm | d. | cm |

\_\_\_\_ 9. A statue that is 16 ft. tall casts a shadow that is 23 ft. long. Find the length of the shadow that a 6 ft. person casts. (Round your answer to the nearest tenth.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4.2 ft. | c. | 8 ft. |
| b. | 8.6 ft. | d. | 8.7 ft. |

\_\_\_\_ 10. Which set of rational numbers are in order least to greatest?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | - , - 3., - , - 3 | c. | - , - 3, - 3., - |
| b. | - 3, - 3., - , - | d. | - 3, - , - 3., - |

\_\_\_\_ 11. The equation below is an example of what property?

22(a + b) = 22a + 22b

|  |  |  |  |
| --- | --- | --- | --- |
| a. | distributive property | c. | commutative property |
| b. | associative property | d. | identity property |

\_\_\_\_ 12. At 7 am, the temperature was 3F below zero. By 1 pm, the temperature rose 15F and by 7 pm, dropped 9F. What was the temperature at 7 pm?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 27F | c. | 21F |
| b. | 3F | d. | 5F |

\_\_\_\_ 13. Round 2,849.2571343 to the nearest hundredths place.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2,849.25 | c. | 2,849.257 |
| b. | 2,849.26 | d. | 2,800 |

\_\_\_\_ 14. In 2008, Leaping Phil set a long jump world record of 9.07 meters. In 2012, Jumping Jack surpassed Leaping Phil by jumping 9 meters. How much farther did Jumping Jack jump than Leaping Phil?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | -0.63 meters | c. | 0.73 meters |
| b. | meters | d. | 0.63 meters |

\_\_\_\_ 15. If a dozen bagels cost $8.99, what is the unit price? (Round your answer to the nearest cent)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 0.75 | c. | $ 0.749 |
| b. | $ 0.70 | d. | $ 0.74 |

**Short Answer**

16. Jeff is looking to buy cookies for his daughter’s sweet sixteen party. He goes to three different bakeries. Dortoni’s Bakery offers 24 cookies for $18.99. Levittown Parkway Bakery offers 20 cookies for $16.75. Butter Cookies Bakery offers 28 cookies for $20.75. Which bakery offers the better buy for Jeff’s daughter’s sweet sixteen party? Explain how you got your answer.

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

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17. The Woodland Middle School baseball team won 7 of its first 12 games. The team later won 14 of its last 22 games. Do these ratios form a proportion? Show your work.

18. Mr. Gropf’s car gets 18 miles per gallon.

a) Write an equation that shows the total number of miles, m, Mr. Gropf can drive on g gallons of gas?

b) If Mr. Gropf uses up 3 gallons of gas, how many total miles has Mr. Gropf driven?

19. Stubhub charges $25 per Mets baseball game ticket plus a $6 processing fee per order. Is the cost of an order proportional to the number of tickets ordered? Explain.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cost ($) | 31 | 56 | 81 | 106 |
| Tickets Ordered | 1 | 2 | 3 | 4 |

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

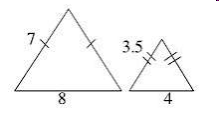
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20. Determine whether the lengths of the corresponding sides of the figures below form a proportional relationship.



**Test #2 7th Grade**

**Answer Section**

**MULTIPLE CHOICE**

1. ANS: D PTS: 1

2. ANS: D PTS: 1

3. ANS: C PTS: 1

4. ANS: C PTS: 1

5. ANS: A PTS: 1

6. ANS: A PTS: 1

7. ANS: C PTS: 1

8. ANS: C PTS: 1

9. ANS: B PTS: 1

10. ANS: D PTS: 1

11. ANS: A PTS: 1

12. ANS: B PTS: 1

13. ANS: B PTS: 1

14. ANS: D PTS: 1

15. ANS: A PTS: 1

**SHORT ANSWER**

16. ANS:

Butter Cookies Bakery

PTS: 1

17. ANS:

No

PTS: 1

18. ANS:

m = 18g

54 miles

PTS: 1

19. ANS:

No

PTS: 1

20. ANS:

Yes

PTS: 1

**Test #3 7th Grade Honors**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

\_\_\_\_ 1. The cost of Ken’s car wash was $23.95. If he wants to give his detailer a 15% tip, how much of a tip should he leave rounded to the nearest dollar?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 3.00 | c. | $ 5.00 |
| b. | $ 4.00 | d. | $ 6.00 |

\_\_\_\_ 2. A salesman needed to sell a four-wheeler. He priced it at $3,500 the first day it was on the market. The second day he reduced the price by 10%. What was the price of the four-wheeler after this reduction?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 3,850 | c. | $ 3,150 |
| b. | $ 3,465 | d. | $ 3,000 |

\_\_\_\_ 3. A New York City Taxi Cab chargers $2.00 a ride plus a $1.50 every  mile the cab travels. If you take a trip in a taxi cab for 5 mile, about how much will your ride cost?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 21.50 | c. | $ 19.50 |
| b. | $ 9.80 | d. | $ 7.80 |

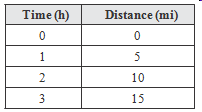
\_\_\_\_ 4. An aquarium is on sale for $59.50. If this price represents a 15% discount from the original price, what is the original price to the nearest cent?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 50.25 | c. | $ 65.75 |
| b. | $ 60 | d. | $ 70 |

\_\_\_\_ 5. During a 3-hour period, 2,292 people rode the roller coaster at an amusement park. Which proportion can be used to find *x*, the number of people who rode the coaster during a 12-hour period, if the rate is the same?

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 6. What is the constant rate of change shown in the table?



|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 7. A dinner is served at an athletic booster fundraiser. The constant relationship between the number of people served at dinner *n* and the number of ounces of beef used *b* is shown in the table below. How many people were served if 760 ounces of beef were used?



|  |  |  |  |
| --- | --- | --- | --- |
| a. | 190 | c. | 165 |
| b. | 600 | d. | 280 |

\_\_\_\_ 8. Which of the following relationships represents a direct variation?

|  |  |
| --- | --- |
| a. |  |
| b. |  |
| c. |  |
| d. |  |

\_\_\_\_ 9. Theo is a real estate agent. He earns a 3% commission on each house he sells. How much commission will Theo earn if he sells a house for $330,000?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 9,900 | c. | $ 320,100 |
| b. | $ 990,000 | d. | $ 10,000 |

\_\_\_\_ 10. The Prichard family drinks 2 quarts of milk per day. How many gallons of milk do they drink in a week?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3  gallons | c. | 14 quarts |
| b. | 14 gallons | d. | gallon |

\_\_\_\_ 11. A chicken can run at a top speed of 9 miles per hour. What is the top speed of a chicken in miles per minute? (Round your answer to the nearest hundredth.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 6.67 miles per minute | c. | 0.30 miles per minute |
| b. | 9 miles per minute | d. | 0.15 miles per minute |

\_\_\_\_ 12. Phillip earns $8.50 per hour at his job. Which equation shows how much he earns, e, if he works w hours?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | w = 8.5e | c. | e = 8.5 + w |
| b. | e = 8.5w | d. | w = 8.5 + e |

\_\_\_\_ 13. Mr. Gropf surveyed the students in his math class and found that 35% of them said their favorite color was green. What decimal represents this amount?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 35 | c. | 3.5 |
| b. | 0.35 | d. | 0.035 |

\_\_\_\_ 14. Jamal bought 3 pounds of grapes, which he divided among several bags. Each bag contained  pound of grapes. How many bags of grapes did Jamal make?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4 | c. | 10 |
| b. | 5 | d. | 8 |

\_\_\_\_ 15. What percent of 50 is 36?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 72% | c. | 60% |
| b. | 139% | d. | 36% |

**Short Answer**

16. The Gropf’s want to buy a new refrigerator. The regular price is $879. The store is offering a 15% discount and a sales tax of 8.625% is added after the discount. What is the total cost rounded to the nearest cent? **Must Show ALL Work.**

**Total Cost $**\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. Morgan needs to buy some tuna fish. Use the table below to help you answer each the question.

**CANNED TUNA PRICES AT THREE SUPERMARKETS**

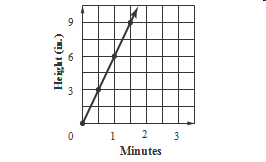
|  |  |  |
| --- | --- | --- |
| Supermarket | Can Size | Cost |
| King Kullen | 12 ounces | 2 cans for $1.84 |
| Stop and Shop | 6 ounces | 3 cans for $1.23 |
| Pathmark | 16 ounces | $ 1.04 per can |

Which supermarket has the best price per ounce for canned tuna?

**Show your work.**

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

18. The height of the water in a bathtub is shown in the graph.



**Part A** Find the rate of change in inches per minute.

**Part B** Does the graph have a direct variation? Explain.

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

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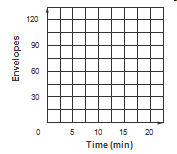
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19. The table below shows the number of envelopes stuffed for various times.



**Part A** Graph the data.



**Part B** Find the slope.

**Part C** Explain what the slope represents.

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

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20. Robin and her friend go to a diner for lunch. They each order a salad for $11.95 and they each order a soda for $2.25. The sales tax is 8.5% and gratuity is 15%.

**Part A** How much will the total cost of lunch be including the sales tax and tip? (Round your answer to the nearest cent)

Total Cost $ \_\_\_\_\_\_\_\_\_\_\_\_

**Part B** If they have $35 between the two of them, will they have enough money to pay the bill? Explain.

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

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**Test #3 7th Grade Honors**

**Answer Section**

**MULTIPLE CHOICE**

1. ANS: B PTS: 1

2. ANS: C PTS: 1

3. ANS: A PTS: 1

4. ANS: D PTS: 1

5. ANS: B PTS: 1

6. ANS: A PTS: 1

7. ANS: A PTS: 1

8. ANS: C PTS: 1

9. ANS: A PTS: 1

10. ANS: A PTS: 1

11. ANS: D PTS: 1

12. ANS: B PTS: 1

13. ANS: B PTS: 1

14. ANS: C PTS: 1

15. ANS: A PTS: 1

**SHORT ANSWER**

16. ANS:

$ 811.59

PTS: 1

17. ANS:

Pathmark

PTS: 1

18. ANS:

6 in. per min.

yes, goes through 0.

PTS: 1

19. ANS:

slope is 6

PTS: 1

20. ANS:

$35.07

No

PTS: 1

**Test #3 7th Grade**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

\_\_\_\_ 1. The cost of Ken’s car wash was $23.95. If he wants to give his detailer a 15% tip, how much of a tip should he leave rounded to the nearest dollar?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 3.00 | c. | $ 5.00 |
| b. | $ 4.00 | d. | $ 6.00 |

\_\_\_\_ 2. A salesman needed to sell a four-wheeler. He priced it at $3,500 the first day it was on the market. The second day he reduced the price by 10%. What was the price of the four-wheeler after this reduction?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 3,850 | c. | $ 3,150 |
| b. | $ 3,465 | d. | $ 3,000 |

\_\_\_\_ 3. A New York City Taxi Cab chargers $2.00 a ride plus a $1.00 every  mile the cab travels. If you take a trip in a taxi cab for 5 mile, about how much will your ride cost?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 13.00 | c. | $ 7.00 |
| b. | $ 11.00 | d. | $ 7.50 |

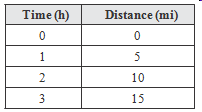
\_\_\_\_ 4. An aquarium is on sale for $59.50. If this price represents a 15% discount from the original price, what is the original price to the nearest cent?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 50.25 | c. | $ 65.75 |
| b. | $ 60 | d. | $ 70 |

\_\_\_\_ 5. During a 3-hour period, 2,292 people rode the roller coaster at an amusement park. Which proportion can be used to find *x*, the number of people who rode the coaster during a 12-hour period, if the rate is the same?

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 6. What is the constant rate of change shown in the table?



|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 7. Which of the following relationships represents a direct variation?

|  |  |
| --- | --- |
| a. |  |
| b. |  |
| c. |  |
| d. |  |

\_\_\_\_ 8. Theo is a real estate agent. He earns a 3% commission on each house he sells. How much commission will Theo earn if he sells a house for $330,000?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 9,900 | c. | $ 320,100 |
| b. | $ 990,000 | d. | $ 10,000 |

\_\_\_\_ 9. The Prichard family drinks 2 quarts of milk per day. How many gallons of milk do they drink in a week?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3  gallons | c. | 14 quarts |
| b. | 14 gallons | d. | gallon |

\_\_\_\_ 10. A chicken can run at a top speed of 9 miles per hour. What is the top speed of a chicken in miles per minute? (Round your answer to the nearest hundredth.)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 6.67 miles per minute | c. | 0.30 miles per minute |
| b. | 9 miles per minute | d. | 0.15 miles per minute |

\_\_\_\_ 11. Phillip earns $8.50 per hour at his job. Which equation shows how much he earns, e, if he works w hours?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | w = 8.5e | c. | e = 8.5 + w |
| b. | e = 8.5w | d. | w = 8.5 + e |

\_\_\_\_ 12. Mr. Gropf surveyed the students in his math class and found that 35% of them said their favorite color was green. What decimal represents this amount?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 35 | c. | 3.5 |
| b. | 0.35 | d. | 0.035 |

\_\_\_\_ 13. Jamal bought 3 pounds of grapes, which he divided among several bags. Each bag contained  pound of grapes. How many bags of grapes did Jamal make?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4 | c. | 10 |
| b. | 5 | d. | 8 |

\_\_\_\_ 14. What percent of 50 is 36?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 72% | c. | 60% |
| b. | 139% | d. | 36% |

\_\_\_\_ 15. Mary has $125 in her bank account. If she withdraws $95.75 from the account, then the next day she deposits $44.85, how much money will be left in the account?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $ 74.10 | c. | $ 15.60 |
| b. | $ 29.25 | d. | $ 140.60 |

**Short Answer**

16. The Gropf’s want to buy a new refrigerator. The regular price is $879. The store is offering a 15% discount and a sales tax of 8.625% is added after the discount. What is the total cost rounded to the nearest cent? **Must Show ALL Work.**

**Total Cost $**\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. Morgan needs to buy some tuna fish. Use the table below to help you answer each the question.

**CANNED TUNA PRICES AT THREE SUPERMARKETS**

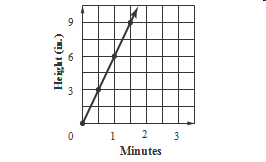
|  |  |  |
| --- | --- | --- |
| Supermarket | Can Size | Cost |
| King Kullen | 12 ounces | $ 0.92 per can |
| Stop and Shop | 6 ounces | $ 0.41 per can |
| Pathmark | 16 ounces | $ 1.04 per can |

Which supermarket has the best price per ounce for canned tuna?

**Show your work.**

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

18. The height of the water in a bathtub is shown in the graph.



**Part A** Find the rate of change in inches per minute.

**Part B** Does the graph have a direct variation? Explain.

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

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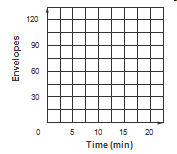
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19. The table below shows the number of envelopes stuffed for various times.



**Part A** Graph the data.



**Part B** Find the slope.

**Part C** Explain what the slope represents.

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

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20. The bill for Robin and her friend for lunch at the diner was $28.75 before tax. The sales tax is 8.5% and gratuity is 15%.

**Part A** How much will the total cost of lunch be including the sales tax and tip? (Round your answer to the nearest cent)

Total Cost $ \_\_\_\_\_\_\_\_\_\_\_\_

**Part B** If they have $35 between the two of them, will they have enough money to pay the bill? Explain.

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

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**Test #3 7th Grade**

**Answer Section**

**MULTIPLE CHOICE**

1. ANS: B PTS: 1

2. ANS: C PTS: 1

3. ANS: A PTS: 1

4. ANS: D PTS: 1

5. ANS: B PTS: 1

6. ANS: A PTS: 1

7. ANS: C PTS: 1

8. ANS: A PTS: 1

9. ANS: A PTS: 1

10. ANS: D PTS: 1

11. ANS: B PTS: 1

12. ANS: B PTS: 1

13. ANS: C PTS: 1

14. ANS: A PTS: 1

15. ANS: A PTS: 1

**SHORT ANSWER**

16. ANS:

$ 811.59

PTS: 1

17. ANS:

Pathmark

PTS: 1

18. ANS:

6 in. per min.

yes, goes through 0.

PTS: 1

19. ANS:

slope is 6

PTS: 1

20. ANS:

$35.50

No

PTS: 1

**Test #4 7th Grade Honors**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

\_\_\_\_ 1. What is (3x - 2) - (4x + 1) in simplest form?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | x - 3 | c. | -x + 1 |
| b. | -x - 3 | d. | x + 1 |

\_\_\_\_ 2. Which fraction is between  and ?

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 3. Which of the following expressions can be written as 5(3 + x)?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | x • 5 + x • 3 | c. | 5 • 3 + x |
| b. | 5 • 3 + 5 • x | d. | 3 + 5 • x |

\_\_\_\_ 4. Lemisha drove an average of 50 miles per hour on Sunday, 55 miles per hour on Monday, and 53 miles per hour on Tuesday. Let s represent the number of hours she drove on Sunday, m represent the number of hours she drove on Monday, and *t* represent the number of hours she drove on Tuesday. Which expression represents the total distance Lemisha drove?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 50s + 55m + 53*t* | c. | 50(s + m + *t*) |
| b. | sm*t*(50 + 55 + 53) | d. | 50 + s + 55 + m + 53 + *t* |

\_\_\_\_ 5. What is the coefficient in the expression 3x + 8?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | x | c. | 3 |
| b. | 8 | d. | 3x |

\_\_\_\_ 6. Shelly is going to summer camp. The table below shows the cost of items she will need to purchase with the camp logo.



Shelly needs to buy four of each item. Which expression below cannot be used to find the total cost of the items?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4(14.75) | c. | 4(8.00) + 4.50 + 2.25 |
| b. | 4(8) + 4(4.50) + 4(2.25) | d. | 4(8.00 + 4.50 + 2.25) |

\_\_\_\_ 7. What is x +  + x - 

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1x + | c. | x - |
| b. | 1x - | d. | 1x - |

\_\_\_\_ 8. Mr. White borrows $4,500 from his bank to buy a car. The loan has a 6.8% annual simple interest rate. If it takes Mr. White two years to pay back the loan, what is the total amount he will be paying?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $612 | c. | $61,200 |
| b. | $5,112 | d. | $4,806 |

\_\_\_\_ 9. A music video on YouTube received 6,000 comments on a new song they released. After the artist performed the song on television, the number of comments increased by 25% the next day. How many comments were on the Web site in total at the end of the next day?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 6,000 | c. | 1,500 |
| b. | 156,000 | d. | 7,500 |

\_\_\_\_ 10. Simplify. 

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20 | c. |  |
| b. |  | d. | 5 |

\_\_\_\_ 11. What is the order of the following measurements from least to greatest?

30 in., 3.5 ft., 60 in., 1 ft.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3.5 ft., 1ft., 30 in., 60 in. | c. | 1ft., 30 in., 3.5 ft., 60 in. |
| b. | 30 in., 1ft., 3.5 ft., 60 in. | d. | 1ft., 3.5 ft., 30 in., 60 in. |

\_\_\_\_ 12. A state sales tax is 6%. What is the percent as a fraction in simplest form?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20 | c. |  |
| b. | 6 | d. |  |

\_\_\_\_ 13. It took Alexandra 8.8 minutes to run a mile. It took Amanda 0.9 times as long as it took Alexandra to run the same distance. How long did it take Amanda to run a mile?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 9.78 minutes | c. | 79.2 minutes |
| b. | 8 minutes | d. | 7.92 minutes |

\_\_\_\_ 14. CVS is having a sale. The table below shows the regular price r and the sale price s of various items. Which formula can be used to calculate the sale price?



|  |  |  |  |
| --- | --- | --- | --- |
| a. | s = r  0.2 | c. | s = r  0.8 |
| b. | s = r - 0.2 | d. | s = r - 0.8 |

\_\_\_\_ 15. Estimate 52% of 10

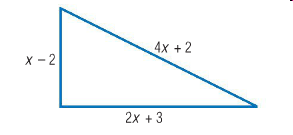
|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5 | c. | 6 |
| b. | 10 | d. | 4 |

**Short Answer. Must Show All Work!**

16. Gordon likes to go jogging for a couple of *m* miles at his local park. On Monday, Wednesday, and Friday, he jogged 2 miles each day. On Thursday he jogged 3 miles. On Saturday, he jogged for 2 hours. Write an expression in simplest form that represents the total distance that Gordon jogged this week.

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

17. Write an expression in simplest form for the perimeter of the triangle below.



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

18. The table below shows the amount Maggie earns each hour she babysits.



Determine if the situation represents a proportional relationship. Explain your reasoning.

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

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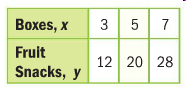
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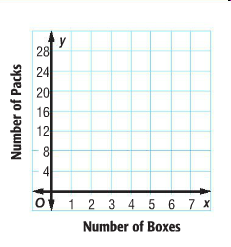
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19. Mr. Gropf is going to take his fiancé out for their 2 year anniversary of when they first met. They decide to go to the Cheesecake factory. Mr. Gropf estimates that the cost of dinner will be $70. The actual cost was $109.28. What was the percent error? Round to the nearest percent. Show all work.

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

20. The table below shows the number of small packs of fruit snacks y per box x. Graph the data. Then find the slope of the line. Explain what the slope represents.





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

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**Test #4 7th Grade Honors**

**Answer Section**

**MULTIPLE CHOICE**

1. ANS: B PTS: 1

2. ANS: C PTS: 1

3. ANS: B PTS: 1

4. ANS: A PTS: 1

5. ANS: C PTS: 1

6. ANS: C PTS: 1

7. ANS: D PTS: 1

8. ANS: B PTS: 1

9. ANS: D PTS: 1

10. ANS: A PTS: 1

11. ANS: C PTS: 1

12. ANS: C PTS: 1

13. ANS: D PTS: 1

14. ANS: C PTS: 1

15. ANS: A PTS: 1

**SHORT ANSWER**

16. ANS:

9m + 2

PTS: 1

17. ANS:

7x + 3

PTS: 1

18. ANS:

Yes

PTS: 1

19. ANS:

36%

PTS: 1

20. ANS:

4

How many fruit snacks in a box

PTS: 1

**Test #4 7th Grade**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

\_\_\_\_ 1. Which fraction is between  and ?

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 2. Lemisha drove an average of 50 miles per hour on Sunday, 55 miles per hour on Monday, and 53 miles per hour on Tuesday. Let s represent the number of hours she drove on Sunday, m represent the number of hours she drove on Monday, and *t* represent the number of hours she drove on Tuesday. Which expression represents the total distance Lemisha drove?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 50s + 55m + 53*t* | c. | 50(s + m + *t*) |
| b. | sm*t*(50 + 55 + 53) | d. | 50 + s + 55 + m + 53 + *t* |

\_\_\_\_ 3. It took Alexandra 8.8 minutes to run a mile. It took Amanda 0.9 times as long as it took Alexandra to run the same distance. How long did it take Amanda to run a mile?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 9.78 minutes | c. | 79.2 minutes |
| b. | 8 minutes | d. | 7.92 minutes |

\_\_\_\_ 4. What is the coefficient in the expression 3x + 8?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | x | c. | 3 |
| b. | 8 | d. | 3x |

\_\_\_\_ 5. A state sales tax is 6%. What is the percent as a fraction in simplest form?

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. | 6 |

\_\_\_\_ 6. What is the order of the following measurements from least to greatest?

30 in., 3.5 ft., 60 in., 1 ft.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3.5 ft., 1ft., 30 in., 60 in. | c. | 1ft., 30 in., 3.5 ft., 60 in. |
| b. | 30 in., 1ft., 3.5 ft., 60 in. | d. | 1ft., 3.5 ft., 30 in., 60 in. |

\_\_\_\_ 7. Shelly is going to summer camp. The table below shows the cost of items she will need to purchase with the camp logo.



Shelly needs to buy four of each item. Which expression below cannot be used to find the total cost of the items?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4(14.75) | c. | 4(8.00) + 4.50 + 2.25 |
| b. | 4(8) + 4(4.50) + 4(2.25) | d. | 4(8.00 + 4.50 + 2.25) |

\_\_\_\_ 8. What is x +  + x - 

|  |  |  |  |
| --- | --- | --- | --- |
| a. | x - | c. | x - |
| b. | x + 1 | d. | x + |

\_\_\_\_ 9. Estimate 52% of 10

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5 | c. | 6 |
| b. | 10 | d. | 4 |

\_\_\_\_ 10. Mr. White borrows $4,500 from his bank to buy a car. The loan has a 6.8% annual simple interest rate. If it takes Mr. White two years to pay back the loan, what is the total amount he will be paying?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $612 | c. | $61,200 |
| b. | $5,112 | d. | $4,806 |

\_\_\_\_ 11. Which of the following expressions can be written as 5(3 + x)?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | x • 5 + x • 3 | c. | 5 • 3 + x |
| b. | 5 • 3 + 5 • x | d. | 3 + 5 • x |

\_\_\_\_ 12. What is (3x - 2) - (4x + 1) in simplest form?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | x - 3 | c. | -x + 1 |
| b. | -x - 3 | d. | x + 1 |

\_\_\_\_ 13. Which number is an irrational number?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3. | c. |  |
| b. | 0.83732912 | d. |  |

\_\_\_\_ 14. Simplify. 

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20 | c. |  |
| b. |  | d. | 5 |

\_\_\_\_ 15. CVS is having a sale. The table below shows the regular price r and the sale price s of various items. Which formula can be used to calculate the sale price?



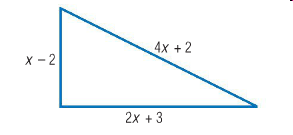
|  |  |  |  |
| --- | --- | --- | --- |
| a. | s = r  0.2 | c. | s = r  0.8 |
| b. | s = r - 0.2 | d. | s = r - 0.8 |

**Short Answer. Must Show All Work!**

16. Gordon likes to go jogging for a couple of *m* miles at his local park. On Monday, Wednesday, and Friday, he jogged 2 miles each day. On Thursday he jogged 3 miles. On Saturday, he jogged for 2 hours. Write an expression in simplest form that represents the total distance that Gordon jogged this week.

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

17. Write an expression in simplest form for the perimeter of the triangle below.



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

18. The table below shows the amount Maggie earns each hour she babysits.



Determine if the situation represents a proportional relationship. Explain your reasoning.

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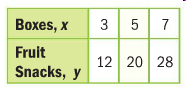
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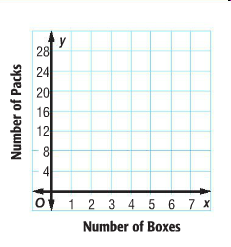
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19. Mr. Gropf is going to take his fiancé out for their 2 year anniversary of when they first met. They decide to go to the Cheesecake factory. Mr. Gropf estimates that the cost of dinner will be $70. The actual cost was $109.28. What was the percent error? Round to the nearest percent. Show all work.

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

20. The table below shows the number of small packs of fruit snacks y per box x. Graph the data. Then find the slope of the line. Explain what the slope represents.





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**Test #4 7th Grade**

**Answer Section**

**MULTIPLE CHOICE**

1. ANS: C PTS: 1

2. ANS: A PTS: 1

3. ANS: D PTS: 1

4. ANS: C PTS: 1

5. ANS: C PTS: 1

6. ANS: C PTS: 1

7. ANS: C PTS: 1

8. ANS: D PTS: 1

9. ANS: A PTS: 1

10. ANS: B PTS: 1

11. ANS: B PTS: 1

12. ANS: B PTS: 1

13. ANS: D PTS: 1

14. ANS: A PTS: 1

15. ANS: C PTS: 1

**SHORT ANSWER**

16. ANS:

9m + 2

PTS: 1

17. ANS:

7x + 3

PTS: 1

18. ANS:

Yes

PTS: 1

19. ANS:

36%

PTS: 1

20. ANS:

4

How many fruit snacks in a box

PTS: 1