**CASTLE LEARNING ASSIGNMENT 16A**

1.  Find *p*: 2*p* + 10 = 40.

Answer: *p* = \_\_\_\_\_\_\_

2.  Doris bought new square floor tiles as shown in the diagram.



Find the perimeter of one of Doris’ tiles.

Answer:  \_\_\_\_\_\_\_ cm

3.  What is the radius of a circle with an area of 36π square units?

Answer:  \_\_\_\_\_\_\_ units

4.  If *p* = 2*ak*2, find *p* when *a* = -1 and *k* = 3.

1. -18
2. 18
3. -6
4. 6

5.  Solve for *q*: 5*q* - 100 = 500.

Answer: *q* = \_\_\_\_\_\_\_

6.  Solve: 4*y* = 10 + 34.

Answer: *y* = \_\_\_\_\_\_\_

7.  A circle has a radius of 5. Express, in terms of π, the circumference of the circle.

1. π/5
2. 5π
3. 10π
4. 25π

8.  Solve for *x*:

3*x* - 4 = 23

Answer: *x* = \_\_\_\_\_\_\_

9.  For an earth science project, Christine recorded the temperatures in degrees Celsius for several cities in Ohio on one winter day.



In which city was it the coldest on that day?

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

Which city had the highest temperature?

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

10.  Find *c*: 3*c* + 4 = 12 + 10.

Answer: *c* = \_\_\_\_\_\_\_

11.  Harold is trying to balance his checkbook. His bank statement lists recent deposits and withdrawals on his checking account.

**Bank Statement for July:**

Beginning Balance      $200

|  |  |  |
| --- | --- | --- |
| 7/6 | Deposit |     + $100 |
| 712 | Withdrawal |     -  $  45 |
| 7/14 | Withdrawal |     -  $  25 |
| 7/18 | Deposit |     + $  50 |

Using his statement, how much does Harold now have in his account?

Answer:  $\_\_\_\_\_\_\_

12.  What is the additive inverse of -3?

Answer:  \_\_\_\_\_\_\_

13.  Which integer is the smallest?

-6, 0, 3, 6, -3, 4, -4

Answer:  \_\_\_\_\_\_\_

14.  Fallon is four years older than her brother, Theodore. If Theodore is 5 years old, how old is Fallon?

1. 1
2. 5
3. 9
4. 13

15.  Play-doh was first sold as a toy in 1956. Crayola Crayons were first sold in 1903. About how many years were Crayola Crayons around before Play-doh?

1. 3 years
2. 30 years
3. 60 years
4. 100 years