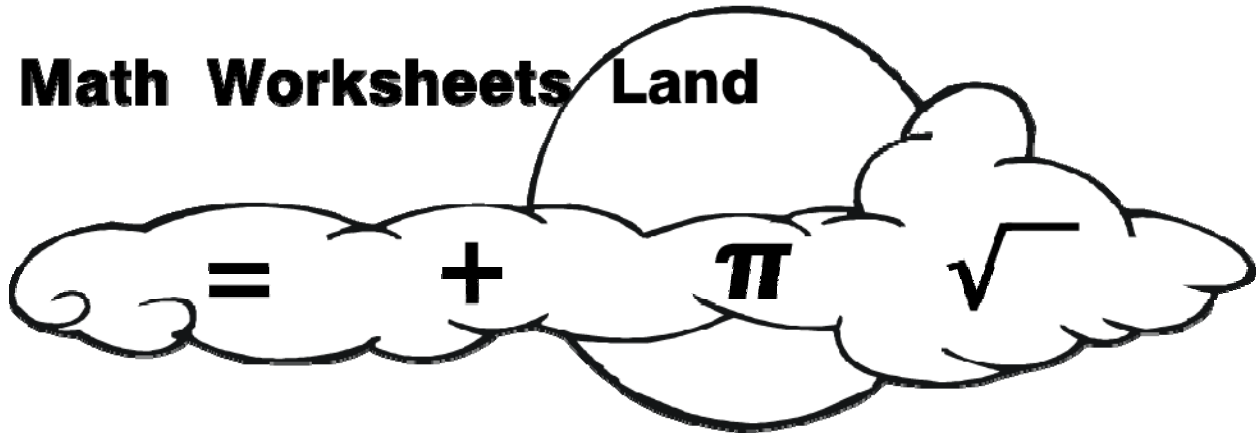Name _____   Date_____

Grade 5 Level

Math Common Core Sampler Test

I find the fifth grade curriculum to be particularly fraction heavy. A great amount of the course year, at this level, is focused on those skills. You need to remember that fractions only account for one-fifth of the total curriculum. (No pun intended!) This test serves a good reminder of that.   For a full breakdown of each Core Standard in test form please check:

Grade 5 Core Math Tests:

http://www.mathworksheetsland.com/tests/grade5.html

For Full Worksheets, Quizzes, and Homework Samples:

http://www.mathworksheetsland.com/5/

Name _____   Date_____

1. What is the expanded form of 68, 025?

    a) 60,000 + 800 + 25
    b) 60,000 + 8000 + 20 + 5
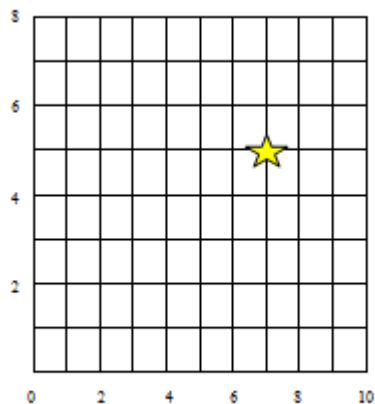   c) 60,000 + 80000 + 20 + 5
    d) 60,000 + 8000 + 200 + 5

2. Joy kept her toys in the storage container shown below. What is the volume of the storage container?

    a) 8 ft³
    b) 9 ft³
    c) 14 ft³
    d) 24 ft³

2 feet

TOYS

3 feet

4 feet

3. What are the coordinates of the star?

    a) (7, 5)
    b) (6, 8)
    c) (5, 7)
    d) (6, 6)

4. After hosting a party, Chloe has $3\frac{1}{8}$ pizzas left. She gives Joseph $1\frac{1}{2}$ pizzas for helping her clean up. How much pizza does Chloe have left after giving Joseph pizza?

   a) $2\frac{2}{10}$ pizzas

   b) $1\frac{5}{8}$ pizzas

   c) $2\frac{1}{2}$ pizzas

   d) $1\frac{3}{8}$ pizzas

5. Which of the following numbers would make the equation shown below correct?

$$5 \text{ x } (13 - \text{\_\_}) \div 2 = 15$$

   a) 1
   b) 5
   c) 7
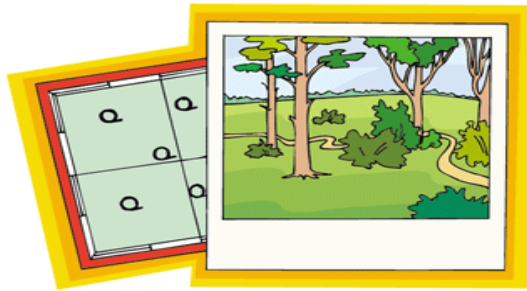   d) 9

6. Gabriela measured the distance from her school to the park using a map. The map's scale states that 1 centimeter = 25 meters. If Gabriela's measurement showed that the school was 13 centimeters from the park, what is the distance in meters?

   a) 12 meters
   b) 38 meters
   c) 225 meters
   d) 325 meters

7. What shape has four sides and only one pair of parallel lines?

   a) trapezoid
   b) rhombus
   c) parallelogram
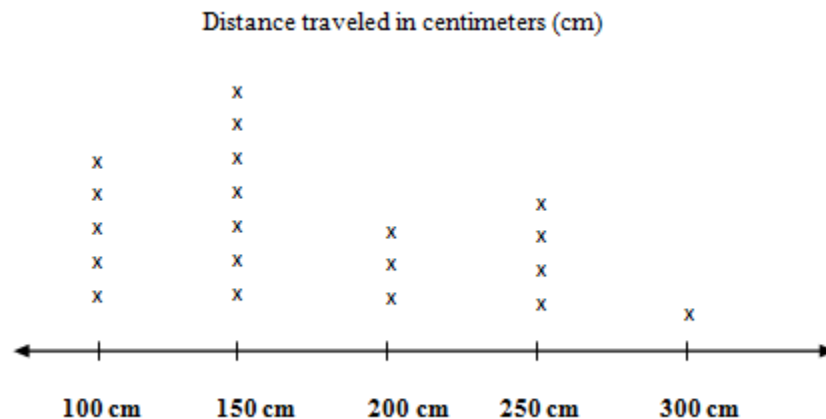   d) hexagon

8. What is 823.871 rounded to the nearest tenth?

   a) 824
   b) 823.9
   c) 823.87
   d) 800.8

9. The line plot below shows the distance (rounded to the nearest whole number) of model cars students used for a science experiment measuring speed.

Distance traveled in centimeters (cm)

```
                    x
                    x
        x           x
        x           x           x
        x           x       x   x
        x           x       x   x
        x           x       x   x
        x           x       x   x       x
    ←───┼───────────┼───────┼───────┼───────┼───→
      100 cm     150 cm   200 cm   250 cm   300 cm
```

Based on the data, how many students' cars traveled less than 200 centimeters?

a) 3
b) 8
c) 12
d) 15

10. What is the expression represented by the following statement:

Divide 18 by 3, multiply by 2 and then subtract 7.

a) 2 x 18 ÷ 3 - 7
b) 18 ÷ (3 x 2) - 7
c) 18 - 7 ÷ 3 x 2
d) 18 ÷ 3 x 2 - 7

Name _____   Date_____

11. Enid feeds her cat the same amount of food each week. She started recording the total amount of food the cat ate, displayed in the table below.

Week	Amount of cat food (in pounds)
1	3
3	6
5	9
7	12

How many pounds of food will Enid's cat have eaten after 10 weeks?

   a) 15 pounds
   b) 16.5 pounds
   c) 17.5 pounds
   d) 18 pounds

12. What is the product of 6 x $\frac{5}{7}$?

   a) $\frac{5}{42}$

   b) $1\frac{4}{7}$

   c) $4\frac{2}{7}$

   d) $8\frac{2}{5}$

13.   Kate wants to buy a new video game. The game cost $76.00. Kate's parents give her $5.00 in allowance each week. If she saves $4.00 each week, how many weeks will it take her to save $76.00?

    a) 9 weeks
    b) 15 weeks
    c) 16 weeks
    d) 19 weeks

14.   Mr. Lowe is setting up his room for art class. He has 5 boxes of crayons with 24 crayons each, 3 packages of pencils with 20 pencils each, and 8 packages of paint brushes with 10 brushes each. What is the difference between the total number of crayons and the total number of paint brushes?

    a) 3
    b) 14
    c) 40
    d) 80

15.   The Canton Grocery Store decides to give away 300 pounds of vegetables as a part of a campaign to get people to eat more vegetables. If 58 people get an equal amount of vegetables, how many remaining pounds will Canton have to give away?

    a) 10 pounds
    b) 52 pounds
    c) 242 pounds
    d) 290 pounds

Name _____   Date_____

16. What is the quotient of 63.72 ÷ 4? Enter your answer in the box.

17. Look at the corresponding numbers in the pattern below used to form ordered pairs.

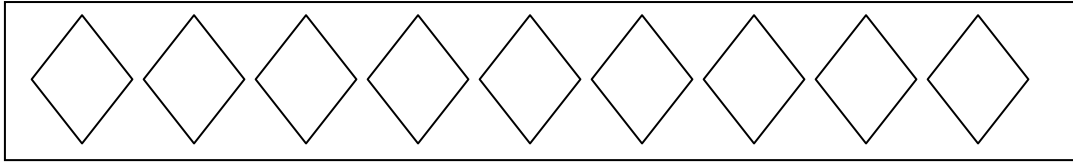| Rule One: add 5	5	10	15
Rule One: add 6	6	12	18

If (0, 0) is the first ordered pair, what is the sixth ordered pair? Write your answer in the box.

18.   Represent the fraction $\frac{4}{9}$ by shading the diamonds to represent the numerator.

◇ ◇ ◇ ◇ ◇ ◇ ◇ ◇ ◇

Refer to the statement below for numbers 19 and 20.

During a match, an average tennis player should be able to hit $\frac{2}{5}$ of his or her first serves within the service lines.

19. If Sam takes 150 serves during a match, how many serves did he hit within the service lines? Write your answer in the space provided.

Answer

20. If Sam hits 90 serves within the service lines during his next match, how many serves did he attempt? Write your answer in the space provided.

Answer

Name _____   Date_____

Bubble Sheet for Questions 1 - 15

1. ⓐ ⓑ ⓒ ⓓ   9. ⓐ ⓑ ⓒ ⓓ

2. ⓐ ⓑ ⓒ ⓓ   10. ⓐ ⓑ ⓒ ⓓ

3. ⓐ ⓑ ⓒ ⓓ   11. ⓐ ⓑ ⓒ ⓓ

4. ⓐ ⓑ ⓒ ⓓ   12. ⓐ ⓑ ⓒ ⓓ

5. ⓐ ⓑ ⓒ ⓓ   13. ⓐ ⓑ ⓒ ⓓ

6. ⓐ ⓑ ⓒ ⓓ   14. ⓐ ⓑ ⓒ ⓓ

7. ⓐ ⓑ ⓒ ⓓ   15. ⓐ ⓑ ⓒ ⓓ

8. ⓐ ⓑ ⓒ ⓓ

Answer Guide

1. (b) **Expanded form shows the full value represented by a digit based on place value**. Answer choice (b) properly shows those values.

2. (d) Apply one of the forms of **volume, l x w x h**, to find the volume of the storage container. **4 x 3 x 2 = 24ft³**

3. (a) **To find the x-coordinate, move to the right of the origin. To find the y-coordinate, move above the origin**. Following those steps shows the x-coordinate is 7 and the y coordinate is 5. The ordered pair is (7, 5).

4. (b) When subtracting $1\frac{1}{2}$ from $3\frac{1}{8}$, remember to find the least common denominator (LCD) and rename where necessary. The LCD is 8. Renaming the fractions results in the following number sentence: $\mathbf{2\frac{9}{8}}$ - $\mathbf{1\frac{4}{8} = 1\frac{5}{8}}$

5. (c) **Follow the order to operations to check your answer**. 5 x (13 − 7) ÷ 2 = 15; 5 x (6) ÷ 2 = 15; 30 ÷ 2 = 15; 15 = 15.

6. (d) Multiply 13 x 25 to find the distance from the school to the park in meters. **13 x 25 = 325 meters**.

7. (a) A trapezoid is a quadrilateral (4-sided figure) that has only one pair of parallel sides.

8. (b) Use the digit in the thousandths place to determine how to round the hundredths place. Since 7 is greater than 5, round 8 up to the next highest number. **823.8_7_1 = 823.9**

9. (c) Don't include the cars that traveled about 200 centimeters when calculating the number of cars because the question only asks for cars **less than** 200 centimeters.

10. (d) Following the statement word for word shows **18 ÷ 3 x 2 - 7**.

11. (b) After the first week, the pattern shows that Enid fed her cat 1.5 pounds of food per week. **After 10 weeks, will have fed her cat 16.5 pounds of food**.

12. (c) **6 x $\frac{5}{7}$ = $\frac{30}{7}$**. To convert the improper fraction to a mixed number, divide the numerator by the denominator. The quotient is the whole number, the remainder in the numerator and the denominator stays the same. $\frac{30}{7}$ = **$4\frac{2}{7}$**.

13. (d) Divide 76 by 4 to find out how many weeks Kate will need to save $76.00. **76 ÷ 4 = 19 weeks**.

14. (c) **Multiply 24 x 5 and then multiply 8 x 10**. Subtract the products. 24 x 5 = 120. 8 x 10 = 80. 120 – 80 = 40.

15. (a) **The number 58 goes into 300 five times. 58 x 5 = 290**. Subtracting 290 from 300 shows a difference of 10. Therefore, Canton will have 10 remaining pounds to give away.

16. The quotient of 63.72 ÷ 4 = 15.93.

17. If the first ordered pair is (0, 0) and the rules are to add 5 to each x-coordinate and 6 to each y-coordinate, applying the rules shows that **(25, 30) is the sixth ordered pair**.

18. Since **4 is the numerator** and represents parts of a whole, four of the diamonds should be shaded.

19. Multiply 150 by $\frac{2}{5}$ to find the number of serves Sam hit within the service line. **150 x $\frac{2}{5}$ = 60 serves**.

20. To find the number of serves Sam attempted, divide 90 by 2 and then multiply by 5. **90 ÷ 2 = 45 x 5 = 225 serves attempted**.