

Name _____

Grade 5 Mathematics
Optional Summer Assignment

1. Carla wrote this number: 814,247

Travis wrote this number: 638,571

The digit 8 in Carla's number represents how many times what the digit 8 represents in Travis' number?

a. 10

b. 100

c. $\frac{1}{10}$

d. $\frac{1}{100}$

2. Write a number that uses the same 6 digits as 901,735

but where the digit 3 represents 10 times what it represents in 901,735.

Answer: _____

3. Which number when rounded to the nearest ten thousand has a value of 290,000?

a. 286,314

b. 298,947

c. 281,769

d. 295,986

4. Peter worked 40 hours per week for 4 weeks. Frank worked half the amount of time Peter worked. How many hours did Frank work during the 4 weeks? Show your work.

Answer: _____

5. List 4 factors of the number 12.

Answer: _____

6. Paula described a number pattern below.

- The starting number is 13.
- The rule is to add 5.

Part A: Fill in the blanks below with the first six numbers in the number pattern that Paula described.

_____, _____, _____, _____, _____, _____

Part B: Describe one thing you notice about the pattern.

7. Is each sum equivalent to $2\frac{2}{5}$? Put an **X** in the oval to select Yes or No.

Yes

No

$$\frac{2}{5} + \frac{2}{5}$$

$$\frac{5}{5} + \frac{5}{5} + \frac{1}{5} + \frac{1}{5}$$

$$\frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{1}{5} + \frac{1}{5}$$

$$\frac{5}{5} + \frac{3}{5} + \frac{4}{5}$$

8. Joy started a hike at 1:50 p.m. It took Joy 2 hours and 25 minutes to finish the hike. What time did Joy finish the hike?

a. 3:35 p.m.

b. 3:50 p.m.

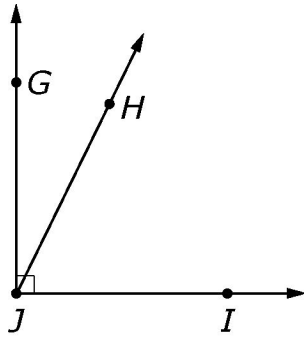
c. 4:05 p.m.

d. 4:15 p.m.

9. A school auditorium has 32 rows of seats. Each row has 15 seats. The letter k represents the total number of seats. Write an equation that can be used to find k .

Equation: _____

10. Refer to the angle drawing below to answer question # 10.






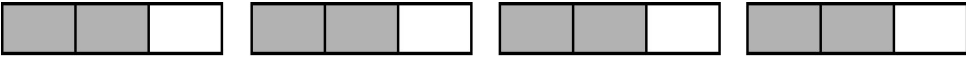
The measure of angle GJH is 26° . What is the measure of angle HJI ?

- a. 64°
- b. 86°
- c. 116°
- d. 154°

11. Ronald competed in a swimming race. All students finished the race in between 42.5 seconds and 47.6 seconds. Which of the following could have been Ronald's time?

- a. 41.9 seconds
- b. 40.5 seconds
- c. 46.8 seconds
- d. 48.1 seconds

12. Which of the following fraction models can be used to show $3 \times \frac{2}{5}$?

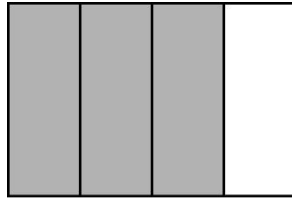
- a. 
- b. 
- c. 
- d. 

What is the value of $3 \times \frac{2}{5}$?

Make sure your answer is in lowest terms.

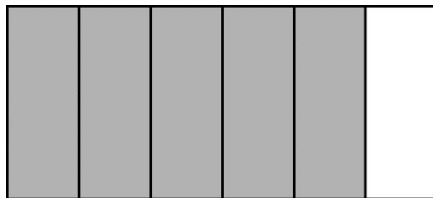
Answer: _____

13. Ms. Lucas drew the model below for $\frac{3}{4}$.



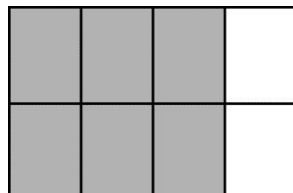
Then she asked her students to find a fraction that is equivalent to $\frac{3}{4}$ and draw their own model for that fraction.

For each model below, put an **X** on Yes or No to indicate whether the shaded portion represents a fraction that is equivalent to $\frac{3}{4}$.



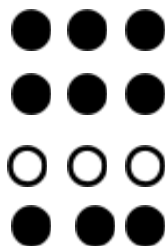
Yes

No



Yes

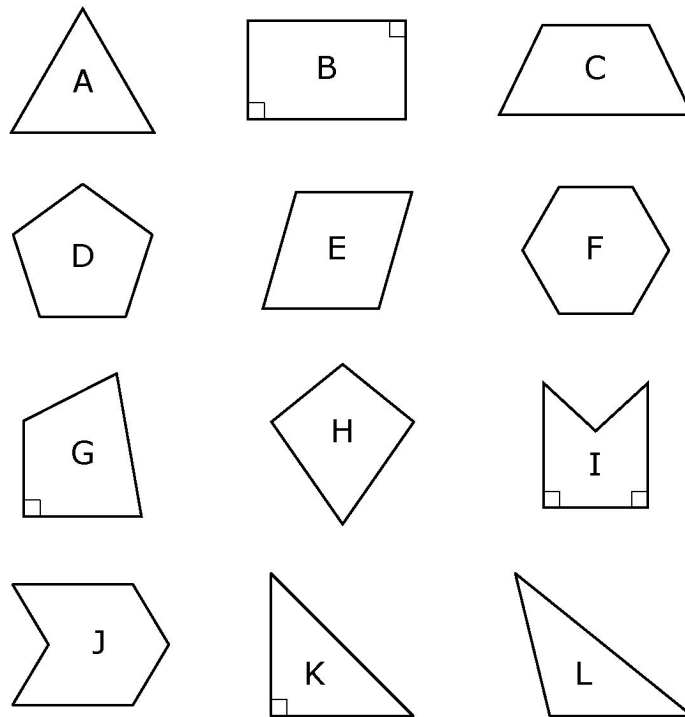
No



Yes

No

Use the figures below to answer questions # 14 and # 15.



14. Circle all of the figures above that appear to have at least one pair of parallel sides.

15. Put an **X** through all of the figures that are quadrilaterals.

16. A pizza was cut into 6 equal pieces. Andrew and Robert will share $\frac{5}{6}$ of the pizza.

Use fractions to write two different equations that show how Andrew and Robert could share the pizza between them. They do not each get the same amount.

Equation # 1: _____

Equation # 2: _____

17. What is the rule to find the Value of the Term (Output) in the sequence below?

<i>n</i> (Input)	Value of the Term (Output)
4	12
6	18
9	27
11	33

- a. $n \times 2$
- b. $n \times 3$
- c. $n + 2$
- d. $n + 3$

What is the value of ***n*** when the Value of the Term (Output) is 39?

Answer: _____

Use the figure below to answer questions # 18 and # 19.



18. What is the area of the square? Include the proper label in your answer.

Answer: _____

19. What is the perimeter of the square? Include the proper label in your answer.

Answer: _____

20. $\frac{3}{6} + \frac{1}{6} =$

21. $\frac{5}{12} - \frac{1}{3} =$

22. $1\frac{5}{9} + 2\frac{1}{9} =$

28. $1\frac{3}{4} \times 2\frac{1}{2} =$

23. $\frac{2}{5} + \frac{3}{10} =$

29. $\frac{1}{5} \div 3 =$

24. $4\frac{3}{8} - 3\frac{1}{2} =$

30. $3 \div \frac{1}{4} =$

25. $7 - 2\frac{1}{4} =$

31. $5 \div 7 =$

26. $\frac{4}{5} \times \frac{1}{2} =$

32. $6 \times \frac{2}{3} =$

27. $\frac{1}{8} \div 2 =$