

Name \_\_\_\_\_

## Rising 6<sup>th</sup> Grade Summer Math Packet

### WEEK 1 Memorize multiplication facts 0 – 10!

1. Round 2,321.4762 to the nearest hundredth.

A: 2,321.47

B: 2,321.48

C: 2,321.476

D: 2,321.477

4. Which of the fractions shown below has the same value as 0.7?

F:  $\frac{1}{7}$

G:  $\frac{7}{100}$

H:  $\frac{7}{10}$

J:  $\frac{3}{4}$

2. Which has a value greater than  $\frac{1}{5}$ ?

F:  $\frac{1}{3}$

G:  $\frac{1}{6}$

H:  $\frac{1}{8}$

J:  $\frac{1}{10}$

5. Which fraction goes in the blank so that this list is in order from least to greatest?

$\frac{1}{4}$ , 0.4, \_\_\_\_\_,  $\frac{2}{3}$ , 0.75

A:  $\frac{1}{5}$

B:  $\frac{1}{2}$

C:  $\frac{5}{6}$

D:  $\frac{7}{8}$

3. Which of the following shows the numbers listed from least to greatest?

A: 0.5,  $\frac{3}{5}$ , 0.9,  $1\frac{1}{3}$ ,  $1\frac{3}{4}$

B:  $1\frac{1}{3}$ ,  $1\frac{3}{4}$ ,  $\frac{3}{5}$ , 0.5, 0.9

C: 0.9,  $1\frac{1}{3}$ ,  $\frac{3}{5}$ ,  $1\frac{3}{4}$ , 0.5

D:  $\frac{3}{5}$ , 0.5,  $1\frac{1}{3}$ , 0.9,  $1\frac{3}{4}$

6. Which statement is true?

F:  $\frac{1}{8} = 0.12$

G:  $\frac{1}{2} = 0.2$

H:  $\frac{3}{5} = 0.8$

J:  $\frac{3}{4} = 0.75$

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**WEEK 2**

7. Which mixed number is equivalent to  $\frac{16}{3}$  ?

A:  $4\frac{1}{3}$

B:  $4\frac{2}{3}$

C:  $5\frac{1}{3}$

D:  $5\frac{2}{3}$

8. Which decimal is equivalent to  $\frac{3}{5}$  ?

F: 0.3

G: 0.4

H: 0.6

J: 0.8

9. Which decimal below has the same value as  $\frac{6}{10}$  ?

A: 6.10

B: 6.0

C: 0.6

D: 0.06

10. Which of the following fractions does NOT equal 0.6?

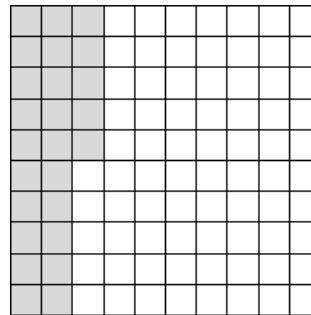
F:  $\frac{2}{3}$

G:  $\frac{60}{100}$

H:  $\frac{6}{10}$

J:  $\frac{3}{5}$

11. The model below is shaded to represent a decimal.



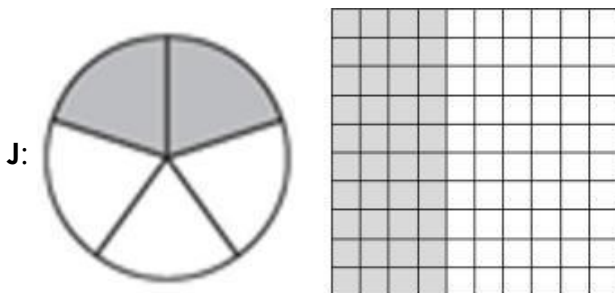
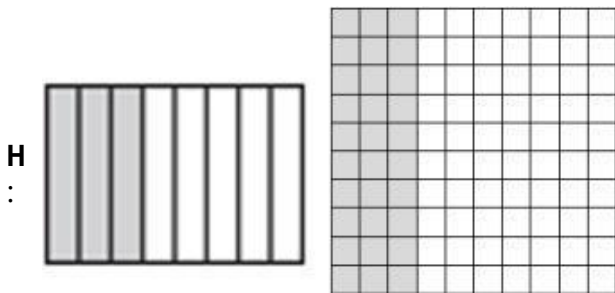
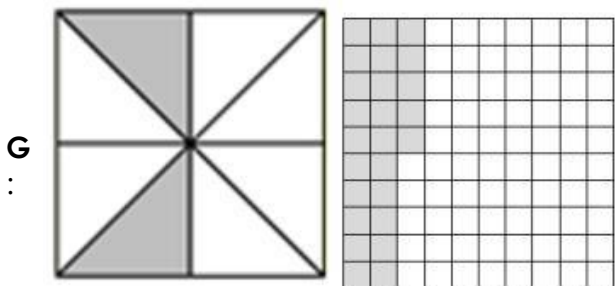
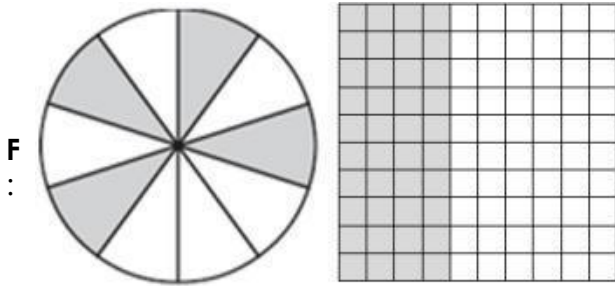
Which fraction model is shaded to represent an equivalent value?



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**WEEK 3**

12. Look at the shaded portions of the fraction and decimal models below. Which of the following pairs does *not* represent an equivalent fraction and decimal?



13. Compare using  $<$ ,  $>$ ,  $=$ .

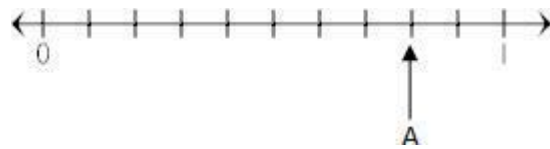


A:  $>$

B:  $<$

C:  $=$

14. Using the number line below, which fraction is best represented by A?



F:  $\frac{1}{2}$

G:  $\frac{4}{5}$

H:  $\frac{7}{8}$

J:  $\frac{8}{9}$

15. Which group contains *only* prime numbers?

A: 5, 13, 29, and 47

B: 7, 11, 27, and 43

C: 7, 19, 33, and 41

D: 11, 17, 37, and 39

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16. Which of the following is *not* a prime number?

- F: 2
- G: 5
- H: 17
- J: 121

20. Which product would be in the 200 to 300 range?

- F:  $9 \times 16$
- G:  $15 \times 12$
- H:  $17 \times 11$
- J:  $19 \times 13$

17. Which is the prime factorization of 36?

- A:  $4 \times 9$
- B:  $3 \times 3 \times 4$
- C:  $2 \times 2 \times 3 \times 3$
- D:  $2 \times 3 \times 6$

21. Look at the table.

**Cost of Signs at Two Stores**

Store	Neon Sign	Wood Sign
A	\$589	\$227
B	\$534	\$285

What would be the least amount of money Jeremy's dad could spend if he bought one of each type of sign?

- A: \$512
- B: \$761
- C: \$816
- D: \$819

18. Which of the following groups of numbers is NOT made up of composite numbers?

- F: 7, 29, 53, 89
- G: 8, 35, 46, 80
- H: 12, 27, 63, 93
- J: 33, 48, 57, 70

22.  $9 \overline{)8,245} =$

- F: 916 R1
- G: 916
- H: 915 R1
- J: 905

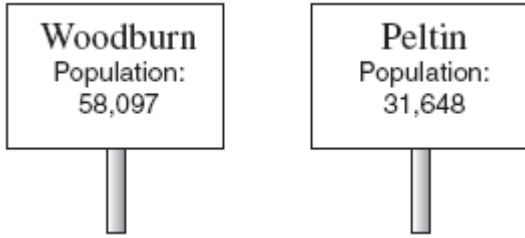
**WEEK 4**

19. Which is the prime factorization of 175?

- A:  $5^2 \times 7$
- B:  $5 \times 7^5$
- C:  $5 \times 7^2$
- D:  $5^2 \times 3^2$

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23. These signs show the population of two different towns.



How much greater is the population of Woodburn than Peltin?

- A: 26,449
- B: 27,651
- C: 89,745
- D: 90,645

24. To prepare for a regional competition, Keith practiced on his skateboard 12 hours each week for 18 weeks. How many hours did Keith practice in all?

- F: 216
- G: 192
- H: 116
- J: 30

### WEEK 5

25. Which of the following is the *best estimate* of the solution to  $25 \times 101$  ?

- A: 250
- B: 2,500
- C: 25,000
- D: 250,000

26. The sum of  $32,796 + 47,580$  is best described as:

- F: about 60,000
- G: about 70,000
- H: about 80,000
- J: about 90,000

27. The table below shows the number of tickets sold to different events at the county fair.

**Event Tickets Sold**

Event	Number Sold
Dog Show	2,260
Craft Booth	3,031
Whirly Ride	928
Ferris Wheel	1,415

What was the total number of tickets sold for these four events?

- A: 7,634
- B: 7,624
- C: 6,634
- D: 6,524

28. The Smiths are planning to drive the 1,038 miles from their home to the Grand Canyon. They plan to drive 689 miles the first day. How many miles will they have left to drive to reach the Grand Canyon?

- F: 349
- G: 368
- H: 451
- J: 527

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**29. Cathy and her friends bought 13 movie tickets. Each ticket cost \$4.75. They paid \$8.75 for snacks. How much did they spend altogether?**

- A: \$61.75
- B: \$70.50
- C: \$113.75
- D: \$118.50

**30. Rita drove 891 miles and used 33 gallons of gas. How many miles per gallon (mpg) did she get on her trip?**

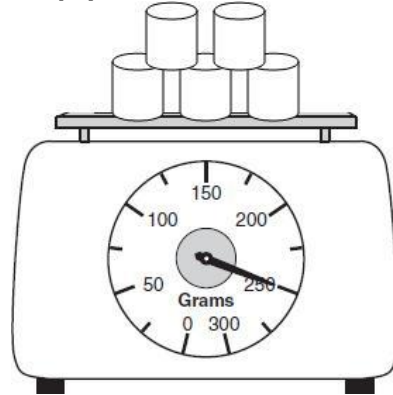
- F: 24 mpg
- G: 27 mpg
- H: 37 mpg
- J: 29,403 mpg

**WEEK 6**

**31. What would be a reasonable estimate for  $2204 \div 29$ ?**

- A: 7000
- B: 700
- C: 70
- D: 7

**32. The scale shows the weight in grams of 5 empty cans of the same size.**



**Which is closest to the weight of 1 empty can?**

- F: 250 grams
- G: 125 grams
- H: 100 grams
- J: 50 grams

**33. Solve.  $40 \times (50 - 10)$ .**

- A: 1600
- B: 1990
- C: 2000
- D: 2400

**34. Multiply.**

$$\begin{array}{r} 146 \\ \times 23 \\ \hline \end{array}$$

- F: 710
- G: 730
- H: 2,358
- J: 3,358

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35.  $4.8 \times 5.1 =$

- A: 2.448
- B: 2.88
- C: 24.41
- D: 24.48

36.  $0.7251 \div 3 =$

- F: 0.2417
- G: 2.417
- H: 24.17
- J: 241.7

#### WEEK 7

37.  $5.2 + 1.073 =$

- A: 0.6273
- B: 1.125
- C: 5.075
- D: 6.273

38. 
$$\begin{array}{r} 0.38 \\ \times 0.9 \\ \hline \end{array}$$

- F: 0.0342
- G: 0.342
- H: 3.42
- J: 34.2

39. A skateboard shop has 9 skateboards that sell for \$107.99 each. Which is closest to the total cost of all the skateboards?

- A: \$100.00
- B: \$400.00
- C: \$700.00
- D: \$1000.00

40. Jamal walked  $\frac{3}{4}$  mile yesterday morning and  $\frac{1}{8}$  mile yesterday afternoon. What was the total distance walked by Jamal?

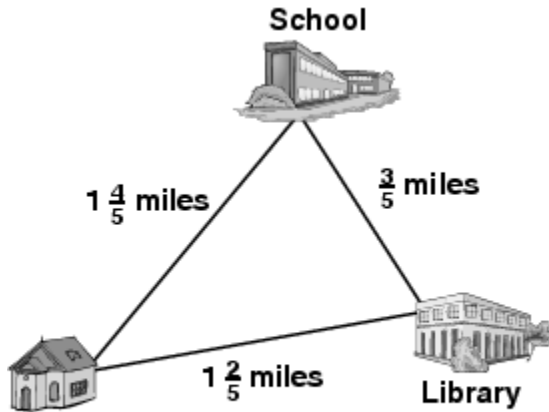
- F: 1 mile
- G:  $\frac{7}{8}$  mile
- H:  $\frac{1}{2}$  mile
- J:  $\frac{1}{3}$  mile

41. Cindy is baking cookies and her recipe calls for  $1\frac{3}{4}$  teaspoons of salt. If she uses a scoop that holds  $\frac{1}{4}$  teaspoon to measure the salt, how many scoops of salt will she use?

- A: 3 scoops
- B: 5 scoops
- C: 7 scoops
- D: 13 scoops

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42. Every day Lewis rides his bicycle from home to school, then to the library, and then back home.



Lewis' Home

How many total miles does Lewis travel if he rides his bicycle on this route for 5 consecutive days?

F:  $8 \frac{4}{5}$  miles

G:  $9 \frac{1}{10}$  miles

H:  $17 \frac{3}{5}$  miles

J: 19 miles

**WEEK 8**

43. Tito bought  $4 \frac{3}{8}$  pounds of candy. He ate  $1 \frac{3}{4}$  pounds and his sister ate  $1 \frac{1}{8}$  pounds. How many pounds of candy are left?

A:  $6 \frac{1}{4}$

B:  $2 \frac{7}{8}$

C:  $2 \frac{1}{2}$

D:  $1 \frac{1}{2}$

44. Which is equivalent to the following?

$$9 \times 5 - 3 \times 7$$

F:  $9 \times 2 \times 7$

G:  $45 - 21$

H:  $21 - 45$

J:  $42 \times 7$

45. Using the order of operations, which calculation should be done first to simplify this expression?

$$32 + 5 \times 12 - 2 \div 3$$

A:  $32 + 5$

B:  $5 \times 12$

C:  $12 - 2$

D:  $2 \div 3$

46. Estimate the volume of liquid in the 2-quart pitcher below.



F:  $1 \frac{1}{2}$  cups

G: 3 cups

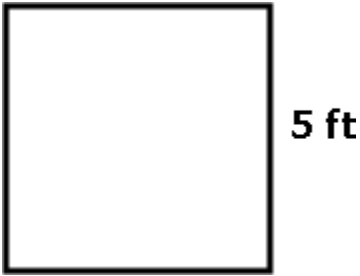
H: 6 cups

J: 12 cups



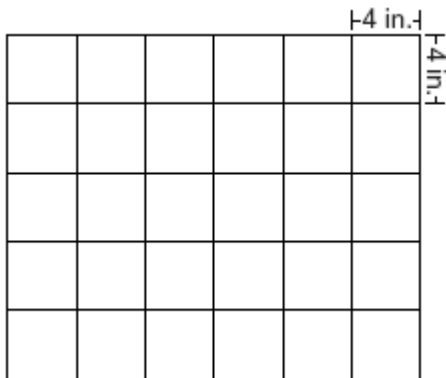
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**47. What is the area of the square shown below?**



- A: 20 ft<sup>2</sup>
- B: 20 ft
- C: 25 ft
- D: 25 ft<sup>2</sup>

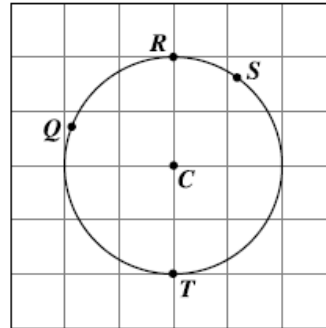
**48. What is the area of the large rectangle shown if each small square is 4 inches wide and 4 inches long?**



- F: 480 sq in.
- G: 120 sq in.
- H: 80 sq in.
- J: 30 sq in.

**WEEK 9**

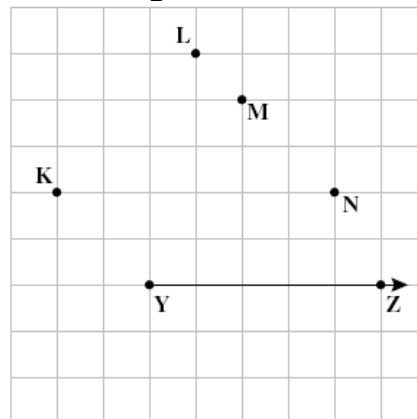
**49. In the figure below, point C is the center of the circle.**



**Which two points can be connected to form a chord that is not a diameter?**

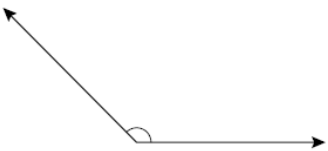
- A: Points Q and T
- B: Points S and C
- C: Points R and T
- D: Points T and C

**50. Laura connected points Y and Z to make one side of an angle. Which other point should she connect to point Y in order to make a 28° angle?**



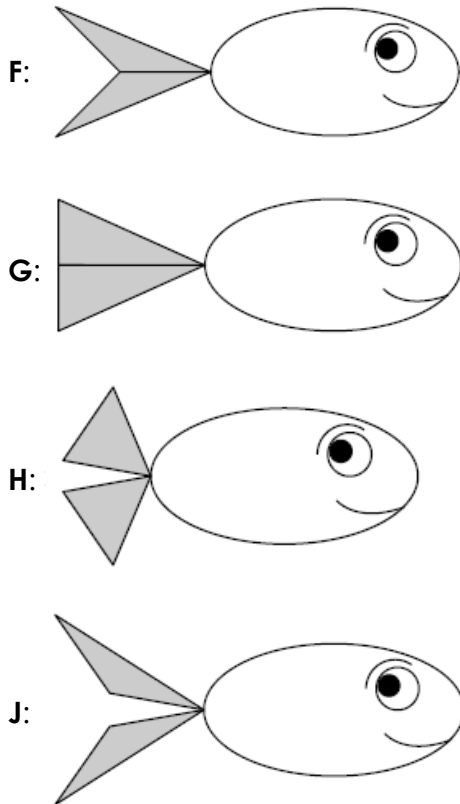
- F: K
- G: L
- H: M
- J: N

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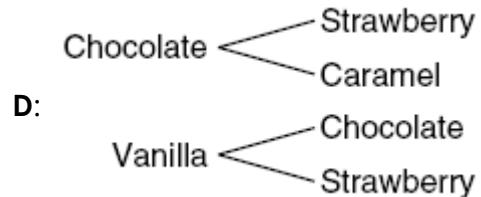
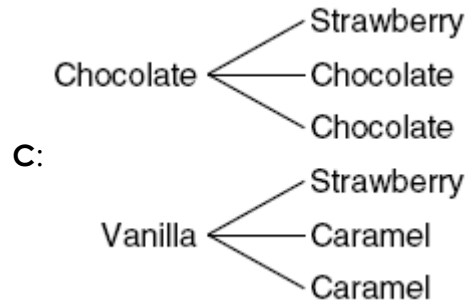
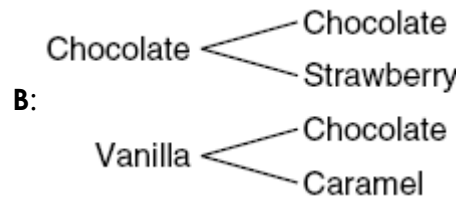
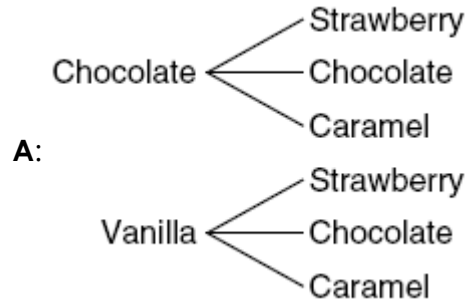
51.   
Which of the following describes the angle shown above?

- A: Right
- B: Acute
- C: Obtuse
- D: Straight

52. Lynn drew a fish using two right triangles for its tail. Which could be the fish Lynn drew?



53. An ice-cream parlor makes sundaes with chocolate or vanilla ice cream and strawberry, chocolate, or caramel topping. Which tree diagram shows all possible combinations of sundaes with one flavor of ice cream and one topping?



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54. These are the sides of a number cube used in a game. Sam will win the game he is playing if he gets a number less than 3 the next time he rolls the number cube.



What is the probability that Sam will win the game on his next roll?

F:  $\frac{1}{6}$

G:  $\frac{1}{3}$

H:  $\frac{1}{2}$

J:  $\frac{2}{3}$

**WEEK 10**

55. These cards are used to play a game between two players.



If Sally draws one card at random, what is the probability it will be a card with a star?

A:  $\frac{2}{5}$

B:  $\frac{3}{10}$

C:  $\frac{1}{5}$

D:  $\frac{1}{10}$

56. The stem-and-leaf plot below shows the ages of the spectators at Mickey's Little League baseball game last week.

Stem	Leaf
1	2, 3, 3, 3, 4, 5
2	9
3	6, 8, 8, 9, 9
4	0, 3, 4

How many spectators were at least 30 years old?

F: 3

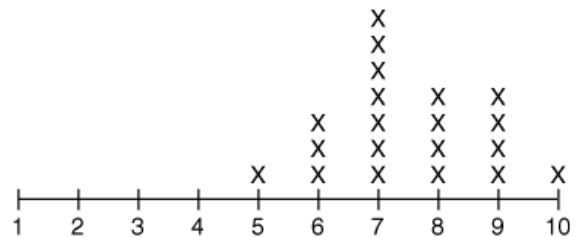
G: 5

H: 7

J: 8

57. Mrs. Crawford gave a quiz to each of her 20 students. Each student was given a score from 1 to 10. After recording all of the scores, she displayed the data on the line-plot shown below.

Scores on Mrs. Crawford's Test



Which of the following statements is not true?

A: The median and the mode are the same value.

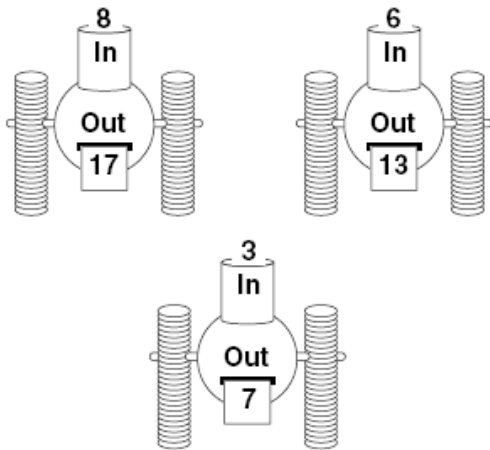
B: The mean is larger than the median.

C: The range of the data is 5.

D: The mean of the data is 8.2.

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58. The picture below shows what happened when different numbers were put into the same number machine.



Which could be the rule used in this number machine?

- F: Multiply by 3, then subtract 5
- G: Multiply by 2, then add 1
- H: Add 9
- J: Subtract 4

59. If  $B$  represents a number, which means “a number divided by 9?”

- A:  $B + 9$
- B:  $B - 9$
- C:  $9 \div B$
- D:  $B \div 9$

60. What is the value of the following expression?

$$5 + (-3) + 4$$

- F: 12
- G: 2
- H: 6
- J: -12

**Memorize multiplication facts 0 – 10!**