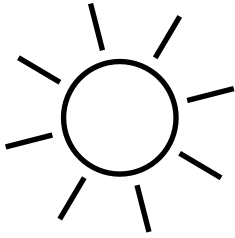


Middle School Summer Math Review





**Hey there! Ready to keep those math skills sharp
over the summer break?**

**Let's make sure we're ready to tackle the challenges of
the upcoming school year.**

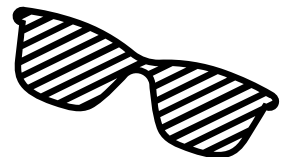
**Each week there are some fun and engaging math
review exercises for you to practice.**

**Try doing each of them without the use of a calculator
- go "old school" this summer!**

Together, we've got this!

From -

the Middle School Math Teachers



Middle School Summer Math Review - Week 1

1. $\frac{3}{5} \div 6 =$

- A. $3\frac{3}{5}$
- B. $\frac{1}{7}$
- C. $\frac{3}{10}$
- D. $\frac{1}{10}$

6.NS.1

4. The classroom is 7 yards long. What is the length in inches?

- A. 14 inches
- B. 84 inches
- C. 252 inches
- D. 21 inches

6.RP.3d

2. Matt paid \$6.65 to download 7 songs. What is the unit rate?

- A. \$0.95 / song
- B. \$0.90 / song
- C. \$46.55/ song
- D. \$0.85 / song

6.RP.2

5. $527.3 + 6.98 =$

- A. 533.28
- B. 534.28
- C. 597.10
- D. 535.28

6.NS.3

3. Which event could be represented by the integer -5?

- A. Depositing \$5 into your bank account.
- B. Adding 5 songs to your playlist.
- C. Losing 5 yards on the play.
- D. Jumping up 5 feet on a trampoline.

6.NS.5

6. What is the ratio of circles to squares?



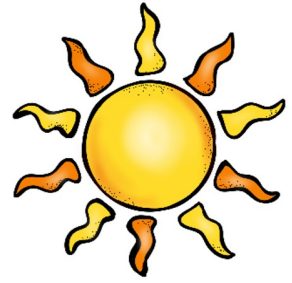
- A. 1:3
- B. 3:1
- C. 4:3
- D. 4:1

6.RP.1

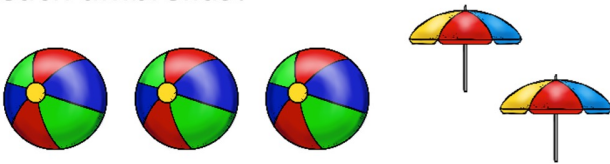
Summer Math Ratios

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.



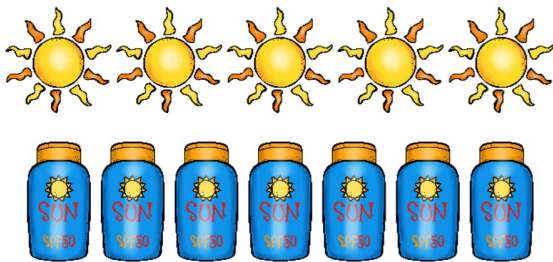
What is the ratio of beach balls to beach umbrellas?



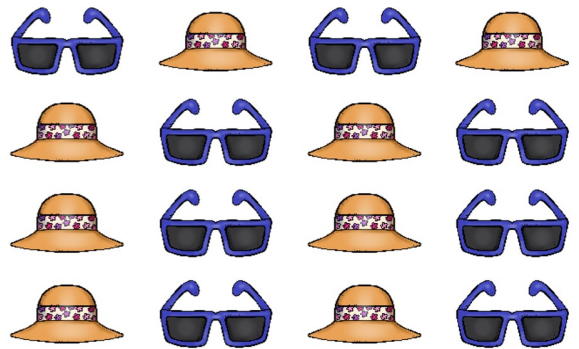
What is the ratio of shovels to buckets?



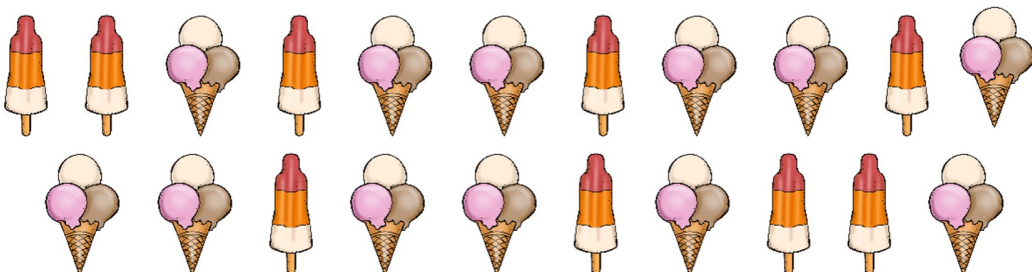
What is the ratio of sunscreen bottles to suns?



What is the ratio of sunglasses to hats?



What is the ratio of ice cream cones to popsicles?



Middle School Summer Math Review - Week 2

7. $20.35 \div 5.5 =$

- A. 0.37
- B. 370
- C. 37
- D. 3.7

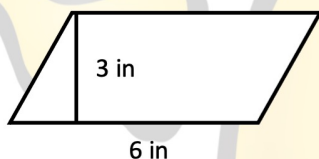
6.NS.3

10. The city's elevation is 23.5 feet below sea level. Between which 2 integers is this elevation?

- A. 23 and 24
- B. -23 and -24
- C. 0 and -23
- D. -24 and -25

6.NS.6a

8. What is the area of this parallelogram?



- A. 9 in^2
- B. 18 in^2
- C. 36 in^2
- D. 12 in^2

6.G.1

11. What is 15% of 70?

- A. 1050
- B. 10.50
- C. 101.5
- D. 1.05

6.RP.3c

9. Write an algebraic expression for 5 times the sum of y and 1.

- A. $5 \times (y + 1)$
- B. $5 \times y + 1$
- C. $5 \times (y - 1)$
- D. $5 \times (5y)$

6.EE.2a

12. $7x = 21$. Solve for x .

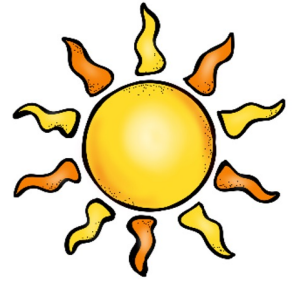
- A. $x = \frac{1}{3}$
- B. $x = 3$
- C. $x = 147$
- D. $x = \frac{1}{147}$

6.EE.7

Summer Math Dividing Decimals

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.



$$2.2 \overline{) 2.86}$$

$$1.8 \overline{) 64.8}$$

$$45 \overline{) 21.5}$$

$$89 \overline{) 51.62}$$

$$7.5 \overline{) 5.175}$$

$$7.\overset{\cdot}{1} \overline{) 340.8}$$

Middle School Summer Math Review - Week 3

13. What is the prime factorization of 140?

- A. $2 \times 2 \times 5 \times 7$
- B. $4 \times 5 \times 7$
- C. $2 \times 3 \times 5 \times 7$
- D. $5 \times 5 \times 7$

6.NS.4

16. If $x = 3$, evaluate the expression $x^2 - 1$.

- A. -5
- B. 5
- C. -8
- D. 8

6.EE.2c

14. Which inequality is shown below?



- A. $x > 3$
- B. $x \geq 3$
- C. $x \leq 3$
- D. $x < 3$

6.EE.8

17. Order from least to greatest

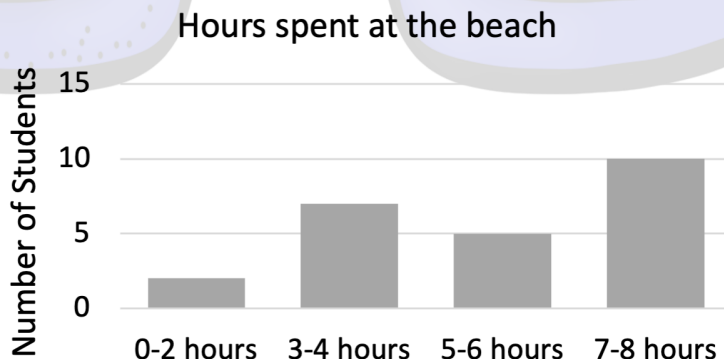
$$\frac{1}{5}, 0.3, \frac{1}{2}$$

- A. $\frac{1}{5}, \frac{1}{2}, 0.3,$
- B. $\frac{1}{2}, \frac{1}{5}, 0.3$
- C. $\frac{1}{5}, 0.3, \frac{1}{2}$
- D. $0.3, \frac{1}{2}, \frac{1}{5}$

6.NS.6c

15. The reporter asked students how much time they spent at the beach each week and displayed the information below. Which interval represents a peak?

- A. 0-2 hours
- B. 3-4 hours
- C. 5-6 hours
- D. 7-8 hours

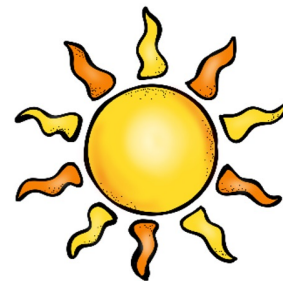


6.SP.2

Summer Math Multiplying Decimals

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.



$$\begin{array}{r} 176 \\ \times 0.65 \\ \hline \end{array}$$

$$\begin{array}{r} 28.7 \\ \times 5.6 \\ \hline \end{array}$$

$$\begin{array}{r} 3.98 \\ \times 48 \\ \hline \end{array}$$

$$\begin{array}{r} 0.894 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 0.405 \\ \times 0.39 \\ \hline \end{array}$$

$$\begin{array}{r} 5.14 \\ \times 2.8 \\ \hline \end{array}$$

$$\begin{array}{r} 62.3 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 0.109 \\ \times 8.7 \\ \hline \end{array}$$

Middle School Summer Math Review - Week 4

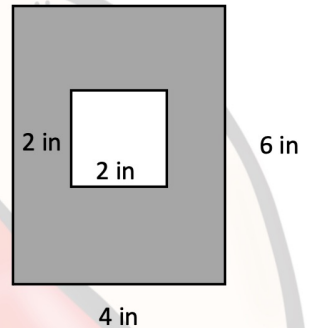
18. Write an equation for this word sentence: one fourth of a number equals 5.

- A. $\frac{1}{4} = 5$
- B. $\frac{1}{4}n = 5$
- C. $4n = 5$
- D. $\frac{1}{4} + n = 5$

6.EE.7

21. Find the area of the shaded region.

- A. 10 in^2
- B. 28 in^2
- C. 20 in^2
- D. 24 in^2



6.G.1

19. Katie divided a drink with a volume of $3\frac{1}{2}$ cups into $\frac{1}{2}$ cup servings. How many servings did she have?

- A. 10
- B. 7
- C. 6
- D. 3

6.NS.2

22. $4\frac{1}{2} \div 2\frac{1}{2} =$

- A. 2
- B. $11\frac{1}{4}$
- C. $2\frac{1}{2}$
- D. $1\frac{4}{5}$

6.NS.1

20. The ratio of girls to boys is 2:3. If there are 14 girls, how many boys are there?

- A. 2
- B. 3
- C. 14
- D. 21

6.RP.1

23. The football team either gained or lost yards on 5 different plays: 1, -5, 3, -3, 0, 5. Order these 5 numbers from greatest to least.

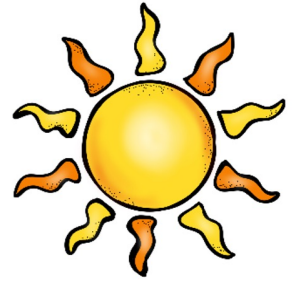
- A. 5, 3, 0, -3, -5
- B. 5, 3, 0, -5, -3
- C. -5, -3, 0, 3, 5
- D. -3, -5, 0, 3, 5

6.NS.7a

Summer Math Dividing Fractions

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.



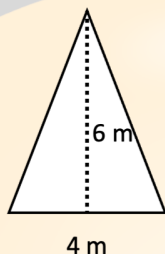
Use the space below the problem to rewrite your division problem as a multiplication problem.

$$\frac{2}{10} \div \frac{4}{5} =$$
$$\text{---} \times \text{---} = \text{---}$$
$$\frac{3}{7} \div \frac{9}{14} =$$
$$\text{---} \times \text{---} = \text{---}$$
$$\frac{5}{15} \div \frac{15}{3} =$$
$$\text{---} \times \text{---} = \text{---}$$
$$\frac{2}{9} \div \frac{8}{3} =$$
$$\text{---} \times \text{---} = \text{---}$$
$$\frac{4}{20} \div \frac{16}{5} =$$
$$\text{---} \times \text{---} = \text{---}$$
$$\frac{8}{18} \div \frac{16}{6} =$$
$$\text{---} \times \text{---} = \text{---}$$

Middle School Summer Math Review - Week 5

24. What is the area of this triangle?

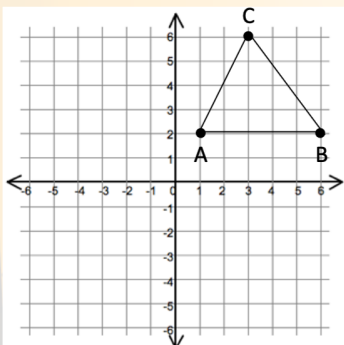
- A. 36 m^2
- B. 24 m^2
- C. 12 m^2
- D. 48 m^2



6.G.1

25. For $\triangle ABC$, what is the length of $\overline{AB}$?

- A. 3
- B. 4
- C. 5
- D. 6



6.G.3

27. The table shows home runs for 2 baseball players over 5 games. Which statement is true?

Home runs in baseball	
Steve	2, 1, 2, 0, 1
Henry	0, 0, 2, 1, 1

- A. The mean for Steve and Henry is the same.
- B. The mean for Steve is greater than the mean for Henry.
- C. The mean for Henry is greater than the mean for Steve.
- D. The range is NOT the same.

6.SP.3

26. Jose reads 45 pages of his novel in 3 hours. At that rate, how many pages would he read in 5 hours?

- A. 60
- B. 75
- C. 90
- D. 105

6.RP.3a

28. $37.4 \times 1.9 =$

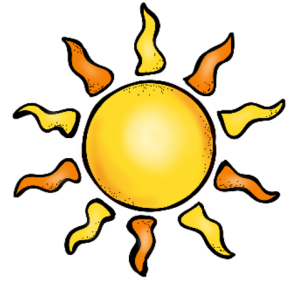
- A. 71.06
- B. 710.6
- C. 70.06
- D. 700.6

6.NS.3

Summer Math - Fraction, Decimal, & Percent

See how many questions you can answer correctly in 10 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.



Fill in the table for the correct fraction, decimal or percent. If needed, round percent to the tenths place.

Fraction	Decimal	Percent
$\frac{1}{2}$		
	0.2	
		10%
	0.25	
$\frac{1}{8}$		
	0.75	
		33.3%
	0.4	
$\frac{1}{6}$		
		60%

Middle School Summer Math Review - Week 6

1. $-4 + +6 =$

- A. -8
- B. 10
- C. -2
- D. 2

7.NS.1b

4. Solve for a

$$3a - 1 = 5$$

- A. $a = \frac{3}{5}$
- B. $a = 2$
- C. $a = 3$
- D. $a = \frac{5}{3}$

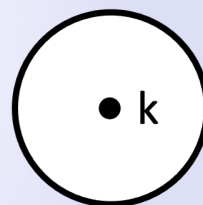
7.EE.4a

2. Which of the following is a factor of $10x + 5$?

- A. 5
- B. 10
- C. x
- D. $5x$

7.EE.1

5. What is k?



- A. Chord
- B. Diameter
- C. Radius
- D. Center

7.G.4

3. $5\frac{1}{10} - 1\frac{7}{10} =$

- A. $3\frac{3}{5}$
- B. $6\frac{4}{5}$
- C. $3\frac{2}{5}$
- D. $3\frac{3}{10}$

7.NS.1d

6. What is the range for the following numbers?

5, 1, 12, 3, 4, 2, 10

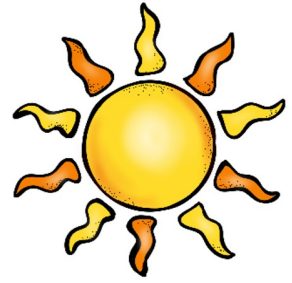
- A. 9
- B. 10
- C. 11
- D. 12

7.SP.4

Summer Math - Integers

See how many questions you can answer correctly in 6 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.



$$+1 + -5 = \underline{\quad}$$

$$+30 \div -5 = \underline{\quad}$$

$$+5 - -2 = \underline{\quad}$$

$$-12 \div -3 = \underline{\quad}$$

$$-2 + -3 = \underline{\quad}$$

$$-6 \times +7 = \underline{\quad}$$

$$+3 - -1 = \underline{\quad}$$

$$+1 \times -7 = \underline{\quad}$$

$$+27 \div +3 = \underline{\quad}$$

$$-4 \times -4 = \underline{\quad}$$

$$-9 - +4 = \underline{\quad}$$

$$-8 + +3 = \underline{\quad}$$

$$-18 \div +3 = \underline{\quad}$$

$$-8 + +1 = \underline{\quad}$$

$$-9 \times +8 = \underline{\quad}$$

$$+5 + -5 = \underline{\quad}$$

$$-56 \div -7 = \underline{\quad}$$

$$+1 - -2 = \underline{\quad}$$

Middle School Summer Math Review - Week 7

12. $3 \times -\frac{1}{8} =$

- A. $-\frac{3}{8}$
- B. $\frac{3}{8}$
- C. $\frac{8}{3}$
- D. 24

7.NS.2c

15. Which fraction is equivalent to $\frac{2}{3}$?

- A. $\frac{9}{12}$
- B. $\frac{5}{9}$
- C. $\frac{4}{5}$
- D. $\frac{4}{6}$

7.EE.3

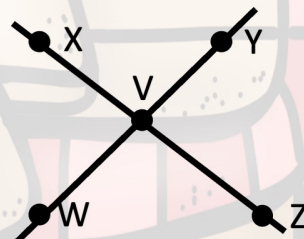
13. What is 80% of \$75?

- A. \$60
- B. \$15
- C. \$75
- D. \$6000

7.RP.3

16. Which angle is vertical to $\angle X V Y$?

- A. $\angle Y V Z$
- B. $\angle W V Z$
- C. $\angle X V W$
- D. $\angle Z V W$



7.G.5

14. Which expression is equivalent to $-5(k + 3)$?

- A. $5k + 15$
- B. $5k - 15$
- C. $-5k - 15$
- D. $-5k + 15$

7.EE.1

17. Marco surveyed the first 10 people who arrived at the pool. He asked them what they thought was the best time to close the pool. What type of sample is this?

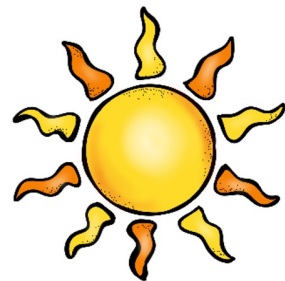
- A. Representative
- B. Random
- C. Biased
- D. Basic

7.SP.1

Summer Math - Order of Operations with Integers

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.



$$-4(3 \times -3) + 4 =$$

$$(-2)^2 + -5 =$$

$$(-5 - -3) \times 2 =$$

$$(-20 \div 5) + (-1)^2 =$$

$$(-2 - 1) \times (-5 - 3) =$$

$$3^2 - (-49 \div -7) =$$

$$(-3 \times 6) - -10 =$$

$$(-2)^3 - -10 =$$

$$(-4 + -6) \div (-5 - 0) =$$

Middle School Summer Math Review - Week 8

18. Which of the following is an equivalent ratio for 2:5?

- A. 5:2
- B. 4:15
- C. 4:10
- D. 6:20

7.RP.2a

21. $-9 \times -6 =$

- A. 63
- B. -63
- C. 54
- D. -54

7.NS.2a

19. Which integer represents growing 2 inches over the summer months?

- A. -2
- B. +2
- C. -1
- D. +1

7.NS.1c

22. Solve for c

$$2c - 3 > 5$$

- A. $c < 1$
- B. $c > 1$
- C. $c < 4$
- D. $c > 4$

7.EE.4b

20. What is the absolute value of -19?

- A. 19
- B. -19
- C. 0
- D. There is no absolute value for -19

7.NS.1a

23. Which inequality does this number line show?



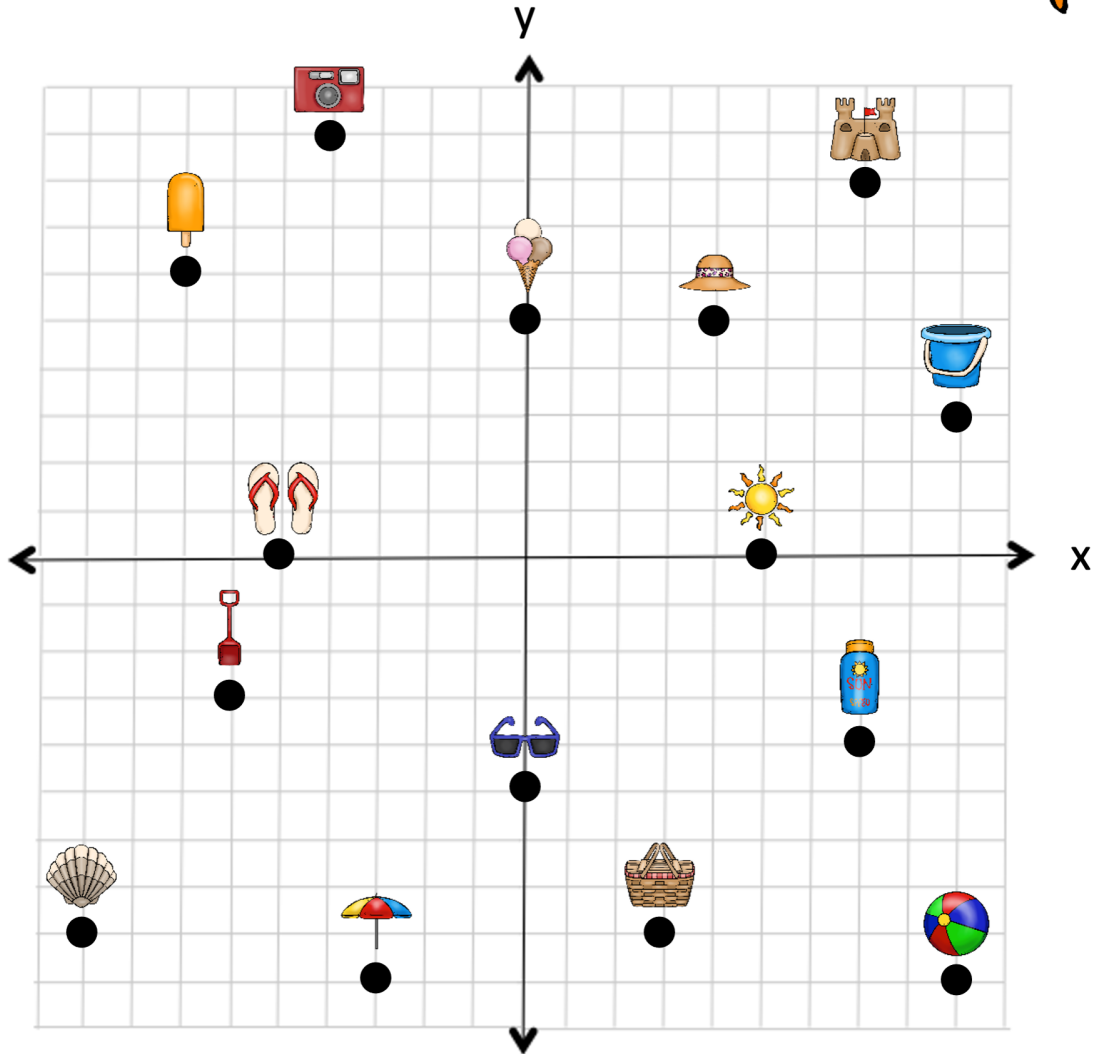
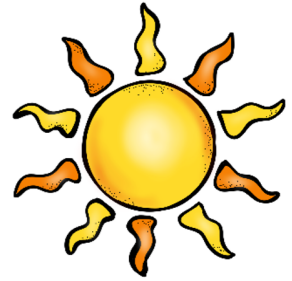
- A. $x \geq -5$
- B. $x > -5$
- C. $x \leq -5$
- D. $x < -5$

7.EE.4b

Summer Math Coordinate Plane

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.



What images are at the following coordinates?

(7,8) _____ (3,-8) _____

(-7,6) _____ (-9,-8) _____

(5,0) _____ (9,-9) _____

(7,-4) _____ (0,5) _____

(-5,0) _____ (0,-5) _____

