SUMMER

MATH

Mrs. Sebastian's Class
Incoming 7th Grade

"It's not that I'm so smart, it's just that I stay with problems longer."
-Albert Einstein

Name: _____ Date: _____

Summer Math Review of 6th Grade Recording Sheet

Please record your answers below. Use A, B, C, or D

1.	15.	29.	43.
2.	16.	30.	44.
3.	17.	31.	45.
4.	18.	32.	46.
5.	19.	33.	47.
6.	20.	34.	48.
7.	21.	35.	49.
8.	22.	36.	50.
9.	23.	37.	51.
10.	24.	38.	52.
11.	25.	39.	53.
12.	26.	40.	54.
13.	27.	41.	55.
14.	28.	42.	56.

Summer Math Review of 6th Grade WEEK I

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

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

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

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

5. 527.3 + 6.98 =

A. 533.28

B. 534.28

C. 597.10

D. 535.28

6.NS.3

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 Review of 6th Grade WEEK 2

7. $20.35 \div 5.5 =$

A. 0.37

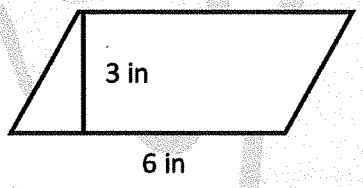
B. 370

C. 37

D. 3.7

6.NS.3

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

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

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

11. What is 15% of 70?

A. 1050

B. 10.50

C. 101.5

D. 1.05

6.RP.3c

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 Review of 6th Grade WEEK 3

13. What is the prime factorization of 140?

A. 2 x 2 x 5 x 7

B. 4 x 5 x 7

C. 2 x 3 x 5 x 7

D. 5 x 5 x 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

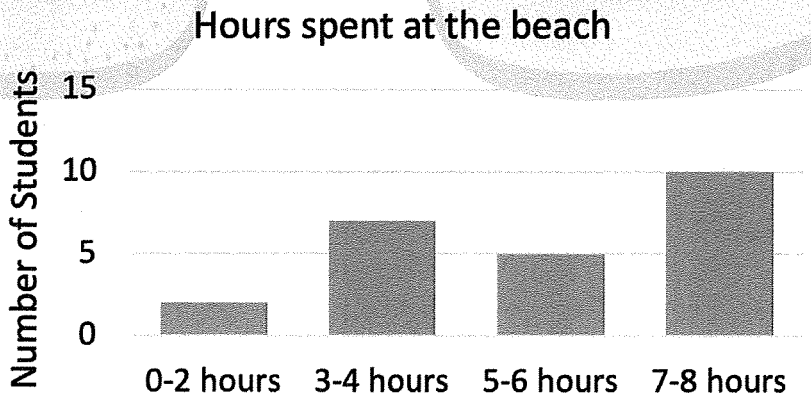
15. The reporter asked students how much time they spent at the beach each week and displayed the information below. Which interval represents a peak?

A. 0-2 hours

B. 3-4 hours

C. 5-6 hours

D. 7-8 hours



6.SP.2

Summer Math Review of 6th Grade 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

19. Katie divided a drink with a volume of 3½ cups into ½ cup servings. How many servings did she have?

A. 10

B. 7

C. 6

D. 3

6.NS.2

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

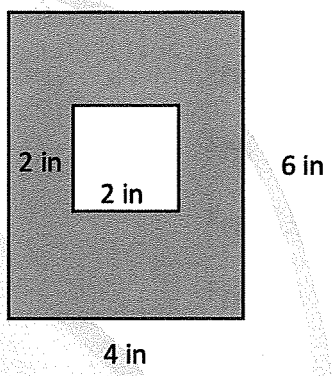
21. Find the area of the shaded region.

A. 10 in^2

B. 28 in^2

C. 20 in^2

D. 24 in^2



6.G.1

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

23. The football team either gained or lost yards on 5 different plays: -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

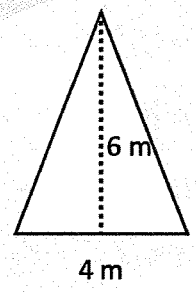
C. -5, -3, 0, 3, 5

D. -3, -5, 0, 3, 5

6.NS.7a

Summer Math Review of 6th Grade WEEK 5

24. What is the area of this triangle?



A. 36 m^2

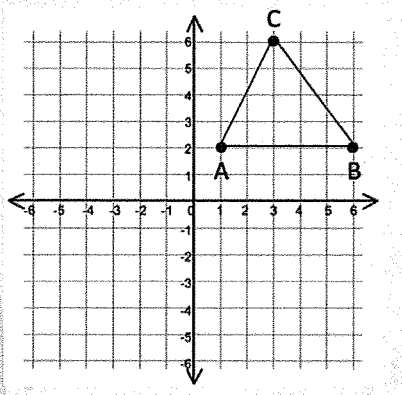
B. 24 m^2

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

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

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

28. $37.4 \times 1.9 =$

A. 71.06

B. 710.6

C. 70.06

D. 700.6

6.NS.3

Summer Math Review of 6th Grade WEEK 6

29. Evaluate the following expression

$$2(3 - 2x)$$

A. $23 - 22x$

B. $6 - 6x$

C. $6 - 4x$

D. $4 - 4x$

6.EE.3

30. Which of the following has a value less than 0?

A. 7

B. $|7|$

C. $|-7|$

D. -7

6.NS.7c

31. What is 130% as a decimal and a fraction in simplest form?

A. 1.3 and $1\frac{3}{100}$

B. 1.3 and $1\frac{3}{10}$

C. 130 and $1\frac{3}{100}$

D. 130 and $1\frac{3}{10}$

6.RP.3c

32. The location of the pool is represented by the point (-24,10). In which quadrant is this point?

A. Quadrant I

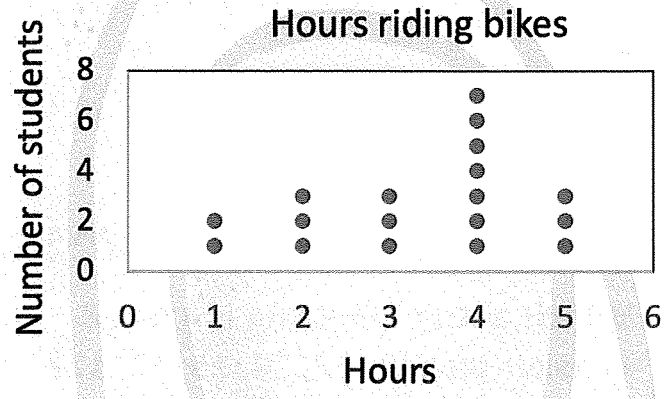
B. Quadrant II

C. Quadrant III

D. Quadrant IV

6.NS.6b

33. The dot plot shows the number of hours students rode their bikes last week. What is the most common number of hours?



A. 2

B. 3

C. 4

D. 5

6.SP.4

Summer Math Review of 6th Grade WEEK 7

34. The expression $3(a + 5)$ is equivalent to which expression?

A. $3 + a + 5$

B. $3a + 8$

C. $3a + 5$

D. $3a + 15$

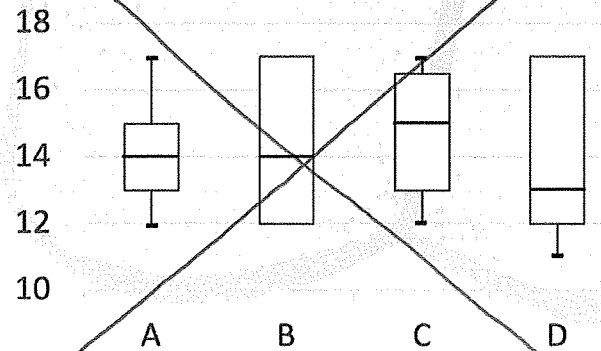
6.EE.4

35. The camp is divided into 2 groups. There are 14 kids in Camp A and 21 kids in Camp B. If you divided both camps into groups of equal size, how many students are in a group?

A. 7
B. 6
C. 5
D. 4

6.NS.4

36. Which of the following is a box & whisker plot for 12, 14, 15, 16, 17?



6.SP.4

37. $\frac{5}{8} \times \frac{2}{3} =$

A. $\frac{7}{12}$

B. $\frac{10}{25}$

C. $\frac{5}{12}$

D. $\frac{5}{24}$

6.NS.4

38. Evaluate the expression

$$6^2 - (3^2 + 1)$$

A. 29
B. 2
C. 5
D. 26

6.EE.1

39. The linear equation y = 3x represents the cost y of x pounds of strawberries. Which ordered pair lies on the graph of the equation?

A. (2, 6)

B. (1, 0)

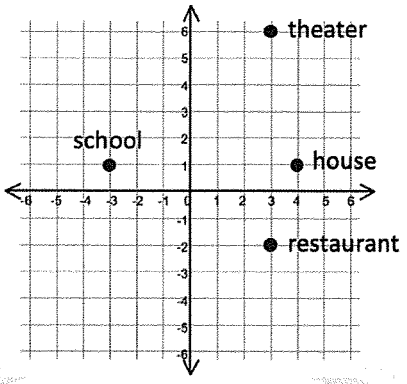
C. (6, 2)

D. (0, 1)

6.EE.9

Summer Math Review of 6th Grade WEEK 8

40. Each unit is 1 mile. What is the distance from the school to the house?



A. 8miles
B. 7 miles
C. 6 miles
D. 5 miles

6.NS.8

43. What is the mean, median, and mode for this set of data: 14, 10, 16, 14, 11?

A. 14, 11, 14
B. 12, 13, 14
C. 13, 14, 13
D. 13, 14, 14

6.SP.5c

41. The cat's weight changed -8 oz. while she was sick. Which of the following shows a greater change in weight?

A. Loss of 9 oz.
B. Loss of 6 oz.
C. Gain of 5 oz.
D. Gain of 3 oz.

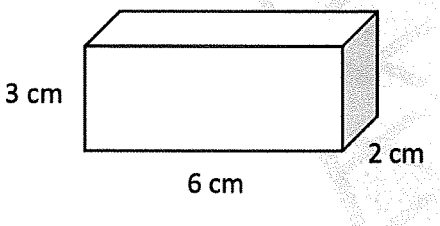
6.NS.7d

44. Order these integers from <u>least</u> to <u>greatest</u>: -9, 9, 0, 6, -6

A. -6, -9, 0, 6, 9
B. -9, -6, 0, 6, 9
C. 9, 6, 0, -6, -9
D. 9, 6, 0, -9, -6

6.NS.7a

42. What is the volume?



A. 11 cm^3
B. 18 cm^3
C. 36 cm^3
D. 72 cm^3

6.G.2

45. If 2 bags of grapes weigh 6 pounds, how many pounds do 5 bags weigh?

A. 15 pounds
B. 20 pounds
C. 25 pounds
D. 9 pounds

6.RP.3b

Summer Math Review of 6th Grade WEEK 9

46. The high temperatures for the week were 87, 82, 100, 83, and 88. What is the mean of the temperatures without the outlier?

(100)

A. 85

B. 84

C. 88

D. 87

6.SP.5d

47. Jamal records how much time he spends playing video games every day for 5 days. Which is <u>not</u> a statistical question for this situation?

A. What is the average amount of time each day?

B. What is the total amount of time?

C. Which game is his favorite?

D. On which day did he spend the most time playing video games?

6.SP.1

48. Helen wants to have cake for her party. She needs 1 cake for every 8 people. Which expression helps her decide how many cakes to buy if p represents the number of people?

A. 8p

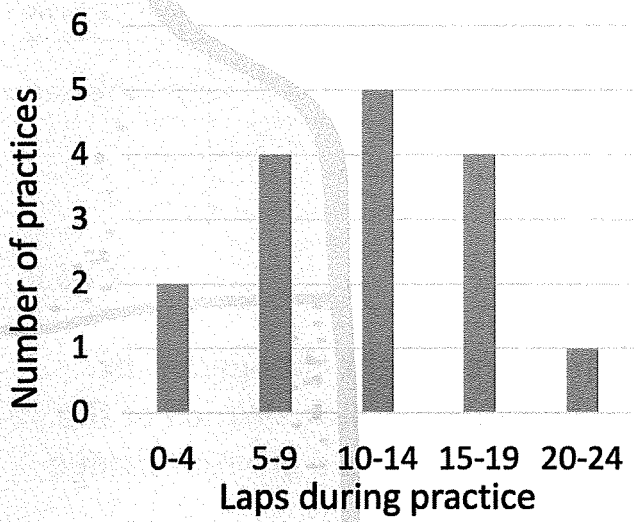
B. $\frac{1}{8}$ p

C. 8 + p

6.EE.6

D. p – 8

49. A swim team coach recorded the number of laps that kids swam during practices. In how many practices did they swim 15-19 laps?



A. 2

B. 3

C. 4

D. 5

6.SP.5a

50. A rectangular prism measures 6 inches by 4 inches by 2 inches. What is the surface area?

A. 22 in^2

B. 44 in^2

C. 88 in^2

D. 100 in^2

6.G.4

Summer Math Review of 6th Grade WEEK 10

51. Is $k = 6$ a solution to the equation $\frac{1}{3}k = 3$?

A. Yes

B. No, $k = 9$

C. No, $k = 3$

D. No, $k = 18$

6.EE.5

52. How many terms are in the following expression?

$6x + 1$

A. 1

B. 2

C. 3

D. 0

6.EE.2b

53. The reporter interviewed 10 tourists from Ohio about the schools in Florida. Which of the following is true?

A. This is a sample of all tourists.

B. These tourists are biased.

C. These tourists are not biased.

D. This is a random sample.

6.SP.5b

54. Order these numbers from greatest to least.

$-\frac{1}{2}, -\frac{1}{4}, 0, 0.3, 0.2$

A. $0.3, 0.2, 0, -\frac{1}{4}, -\frac{1}{2}$

B. $-\frac{1}{2}, -\frac{1}{4}, 0, 0.2, 0.3$

C. $0.2, 0.3, 0, -\frac{1}{2}, -\frac{1}{4}$

D. $0.3, 0.2, 0, -\frac{1}{2}, -\frac{1}{4}$

6.NS.7b

55. $x + 8 = 12$

A. $x = 4$

B. $x = 20$

C. $x = 8$

D. $x = 5$

6.EE.7

56. $218.01 \div 4.3 =$

A. 0.507

B. 5.07

C. 50.7

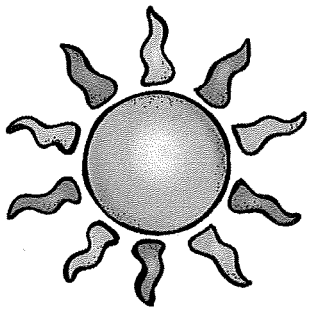
D. 507

6.NS.3

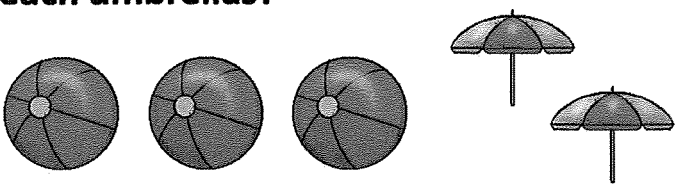
Summer Math Ratios WEEK 1

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?



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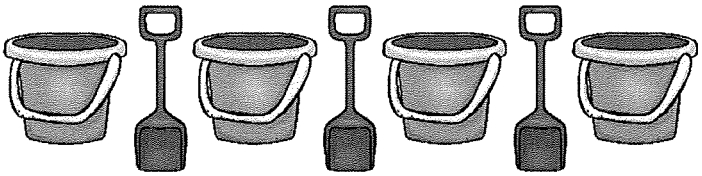
What is the ratio of shovels to buckets?



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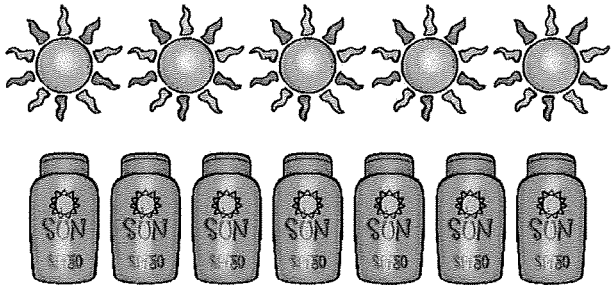
What is the ratio of sunscreen bottles to suns?



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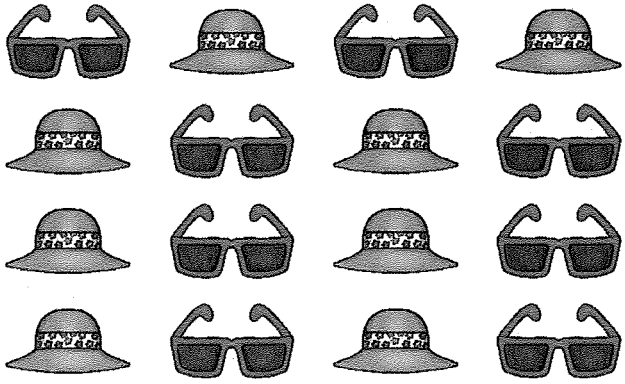
What is the ratio of sunglasses to hats?



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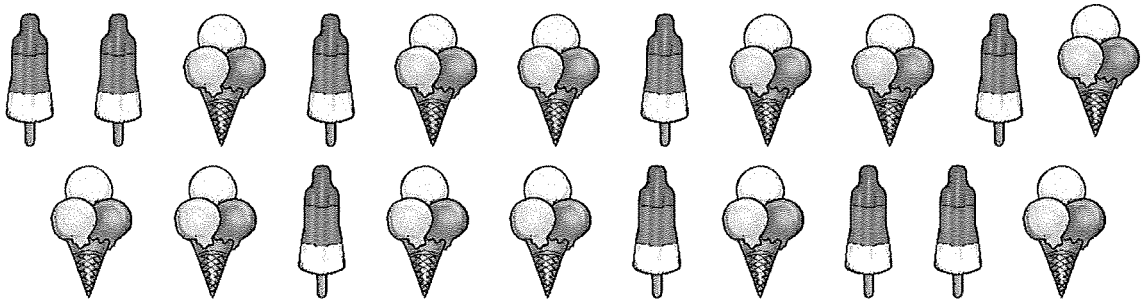
What is the ratio of ice cream cones to popsicles?



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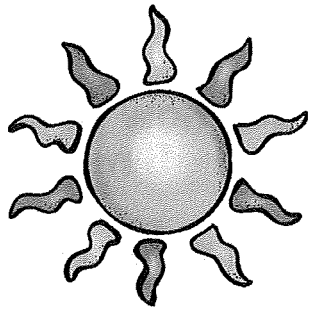
Summer Math Dividing Decimals WEEK 2



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.
(then finish them all)

$2.2\overline{)2.86}$

$1.8\overline{)64.8}$

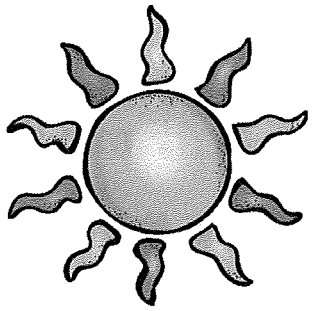
$45\overline{)121.5}$

$89\overline{)51.62}$

$7.5\overline{)5.175}$

$7.1\overline{)340.8}$

Summer Math Evaluating Expressions WEEK 3



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.
(then finish them all)

Find the value of the expressions below.

$12 - x$
When $x = 3$
_____

$k + 5$
When $k = 1$
_____

$8 \times y$
When $y = 6$
_____

$20 \div a$
When $a = 5$
_____

$j + 4 + k$
When $j = 3$
and $k = 1$
_____

$x - 5 - y$
When $x = 15$
and $y = 2$
_____

$4 \times a \div b$
When $a = 5$
and $b = 10$
_____

$5cd$
When $c = 3$
and $d = 4$
_____

Combine like terms below.

$5c + 5c$
_____

$8k - 2k$
_____

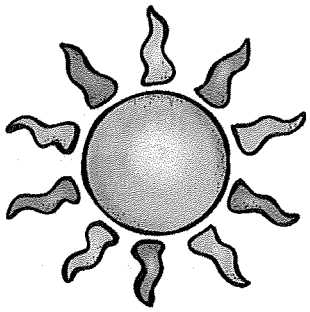
$9g - 3g + g$
_____

$y + 5 + 3y + 1$
_____

$7a + 2 + -3a$
_____

$10 - 8 + 10x - x$
_____

Summer Math Multiplying Decimals WEEK 4



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.

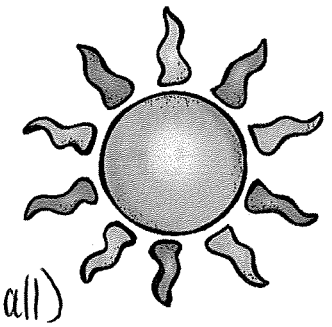
(then finish them all)

176 x 0.65	28.7 x 5.6	3.98 x 48	0.894 x 18
0.405 x 0.39	5.14 x 2.8	62.3 x 17	0.109 x 8.7

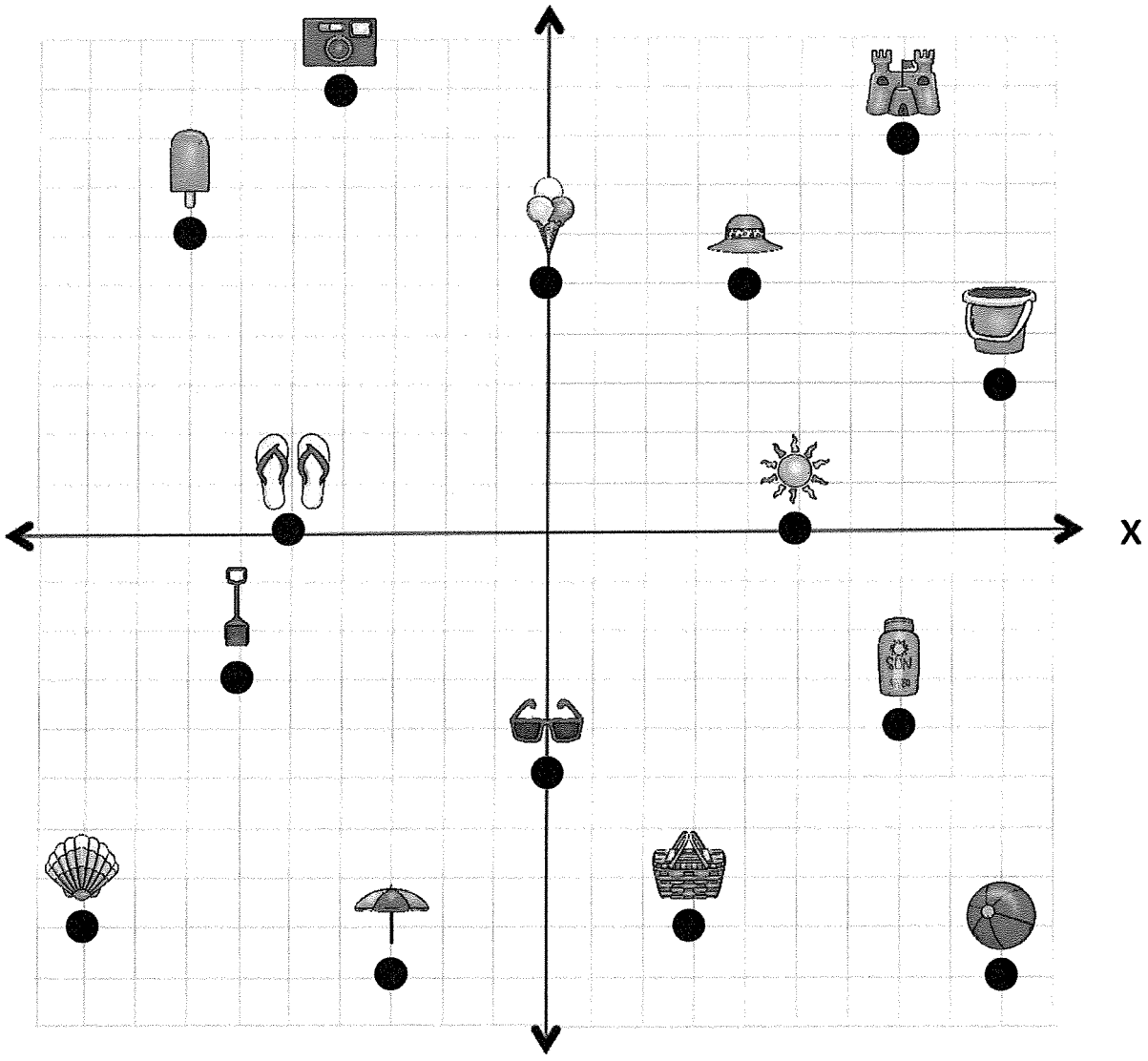
Summer Math Coordinate Plane WEEK 5

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.



y (then finish them all)



What images are at the following coordinates?

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

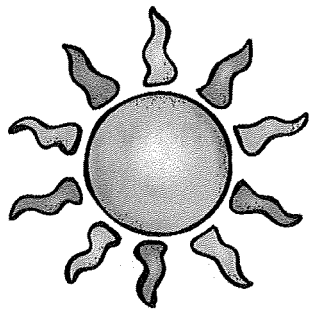
(-7,6) _____ **(-9,-8)** _____

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

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

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

Summer Math 4 digit by 2 digit Multiplication
WEEK 6



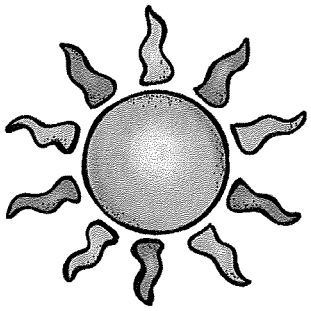
See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

(then finish them all)

1,783 x 59	4,692 x 60	5,501 x 71	8410 x 82
2,329 x 43	3,238 x 36	6,147 x 25	7056 x 14

Summer Math Unit Rate Word Problems WEEK 7

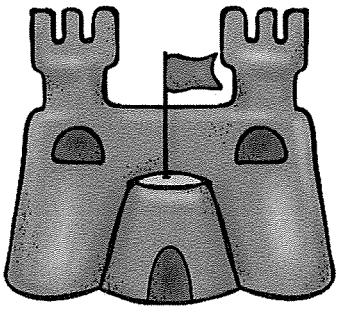


See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

(then finish them all)

Team A built 8 sandcastles in 2 hours and Team B built 5 sandcastles in 1 hour. Which team worked at a faster rate?



How many sandcastles will Team A build in 3 hours?

How many sandcastles will Team B build in 4 hours?

John Paul and Susie collected seashells at the beach.

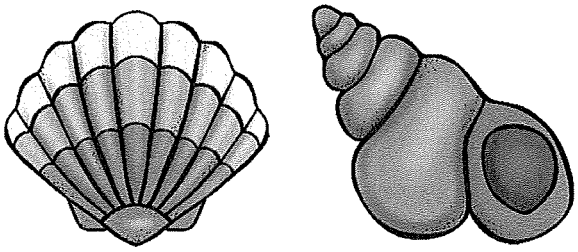
John Paul collected $\frac{20\ seashells}{hour}$

Susie collected $\frac{25\ seashells}{hour}$

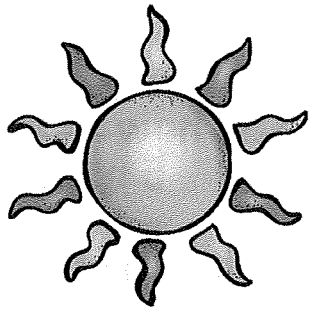
How many seashells did John Paul collect after 2 hours?

How many seashells did Susie collect after 2 hours?

How many total seashells did they both collect after 2 hours?



Summer Math Dividing Fractions WEEK 8



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.

(then finish them all)

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

$\frac{2}{10} \div \frac{4}{5} =$

$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$

$\frac{3}{7} \div \frac{9}{14} =$

$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$

$\frac{5}{15} \div \frac{15}{3} =$

$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$

$\frac{2}{9} \div \frac{8}{3} =$

$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$

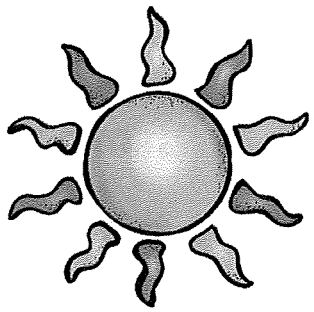
$\frac{4}{20} \div \frac{16}{5} =$

$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$

$\frac{8}{18} \div \frac{16}{6} =$

$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$

Summer Math Prime Factorization WEEK 9



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.

(then finish them all)

Complete the factor tree for the following numbers. Make sure you circle your prime numbers. The first one is done for you.

$60 = 2^2 \times 3 \times 5$

60

(2) 30

(2) 15

(3) (5)

84 = _____

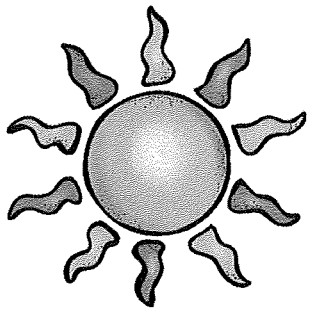
175 = _____

32= _____

90 = _____

189 = _____

Summer Math 4 digit by 2 digit Long Division
WEEK 10



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.

(then finish them all).

$25\overline{)2700}$

$41\overline{)8733}$

$38\overline{)3686}$

$54\overline{)2538}$

$95\overline{)6745}$

$79\overline{)4898}$