

Summer Math - Rising 8th Grade WEEK 1

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. $a = \frac{5}{3}$

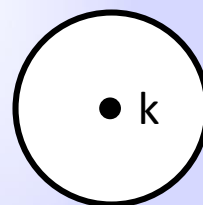
7.EE.4a

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 - Rising 8th Grade WEEK 2

7. Jack made a scale drawing of the golf course. On the real golf course, the distance to the 8th hole is 360 yards. On his drawing, the distance to the 8th hole is 18 cm. What is the scale of Jack's drawing?

- A. 1 cm = 20 yards
- B. 20 cm = 1 yard
- C. 1 cm = 15 yards
- D. 15 cm = 1 yard

7.G.1

9. A 4 lb. bag of salt water taffy from the beach costs \$15.12. What is the unit rate?

- A. \$15.12/lb
- B. \$3.78/lb
- C. \$3.79/lb
- D. \$3.77/lb

7.RP.1

10. $-9 - -3 =$

- A. -6
- B. -12
- C. 6
- D. 12

7.NS.1b

8. Using the following numbers, would the mode change if the number 19 was added?

24, 18, 22, 24, 19, 17, 24

- A. No
- B. Yes, the mode would change to 19
- C. Yes, the mode would change to 20
- D. Yes, the mode would change to 21

7.SP.4

11. Taylor collected 4 white shells and 9 grey shells. If she put all the shells in a bucket and randomly pulled one out, what is the probability that the shell would be white?

- A. $\frac{9}{9}$
- B. $\frac{9}{13}$
- C. $\frac{4}{13}$
- D. $\frac{4}{9}$

7.SP.5

Summer Math - Rising 8th Grade WEEK 3

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

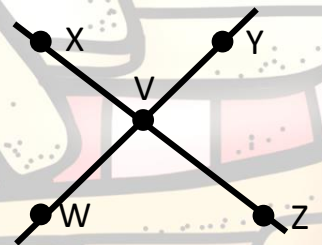
13. What is 80% of \$75?

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

7.RP.3

16. Which angle is vertical to $\angle XVY$?

- A. $\angle YVZ$
- B. $\angle WVZ$
- C. $\angle XVW$
- D. $\angle ZVW$



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 - Rising 8th Grade WEEK 4

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?

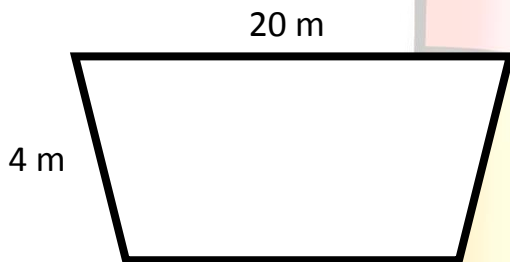
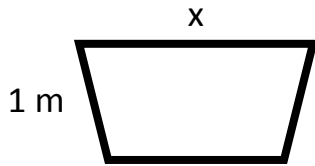


- A. $x \geq -5$
- B. $x > -5$
- C. $x \leq -5$
- D. $x < -5$

7.EE.4b

Summer Math - Rising 8th Grade WEEK 5

24. If these 2 shapes are similar, what is the length of x?



- A. 5 m
- B. 4 m
- C. 20 m
- D. 16 m

7.G.1

25. The diameter of the circle is 4 miles. What is the area of the circle? Use 3.14 for π .

- A. 6.28 miles²
- B. 25.12 miles²
- C. 12.56 miles²
- D. 50.24 miles²

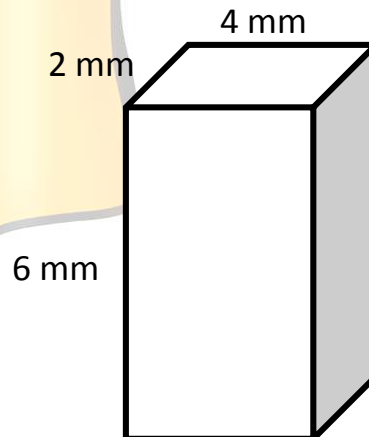
7.G.4

26. $-81 \div 9 =$

- A. -9
- B. +9
- C. -8
- D. +8

7.NS.2b & 7.NS.2

27. What is the surface area of this rectangular prism?

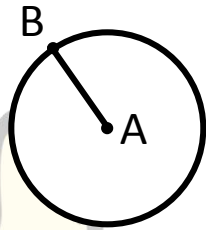


- A. 48 mm²
- B. 44 mm²
- C. 88 mm²
- D. 176 mm²

7.G.6

Summer Math - Rising 8th Grade WEEK 6

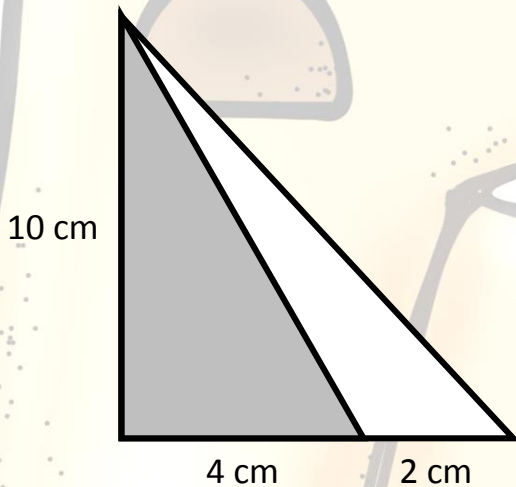
28. What is \overline{AB} ?



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

7.G.4

29. What is the area of the shaded region?



- A. 20 cm^2
- B. 40 cm^2
- C. 30 cm^2
- D. 15 cm^2

7.G.6

30. This table shows the amount of money earned at a lemonade stand.

Glasses of Lemonade	2	4	6
Money Earned	\$1	\$2	\$3

How much money does one glass of lemonade cost based on the table above?

- A. \$1.50/glass
- B. \$1.00/glass
- C. \$0.50/glass
- D. \$2.00/glass

7.RP.2b

31. Your favorite soccer player scored 1 goal after taking 5 shots on goal. What is the experimental probability that he will score on his next shot on goal?

- A. $\frac{1}{10}$
- B. $\frac{1}{5}$
- C. $\frac{1}{25}$
- D. $\frac{1}{6}$

7.SP.6

Summer Math - Rising 8th Grade WEEK 7

32. What is the linear equation for these values of x and y ?

- A. $y = x + 1$
- B. $y = 2x - 1$
- C. $y = 2x$
- D. $y = 2x + 1$

x	y
0	1
1	3
2	5
3	7

7.RP.2c

33.
$$\begin{array}{r} 43.21 \\ - 18.54 \\ \hline \end{array}$$

- A. 24.66
- B. 24.67
- C. 24.57
- D. 24.56

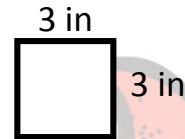
7.NS.1d

34. If you have a deck of 52 playing cards, what is the probability that you will draw a king?

- A. $\frac{1}{13}$
- B. $\frac{1}{52}$
- C. $\frac{4}{13}$
- D. $\frac{3}{52}$

7.SP.7a

35. You have a square with sides equal to 3 inches. If you double the length of the side, how does that affect the area?



- A. The area of the new square doubles.
- B. The area of the new square is halved.
- C. The area of the new square is 4 times the area of the old square.
- D. The area of the new square is 6 times the area of the old square.

7.G.1

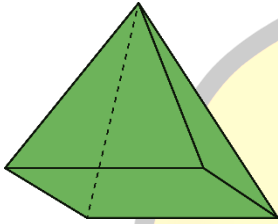
36. Two girls are shopping for a gift for one of their mutual friends. They are shopping together to make sure they don't buy the same gift. Are these 2 events dependent or independent?

- A. These events are dependent.
- B. These events are independent.
- C. These events are both dependent and independent.
- D. These events are neither dependent or independent.

7.SP.8a

Summer Math - Rising 8th Grade WEEK 8

37. What is the name of this figure?



- A. triangular prism
- B. pyramid
- C. rectangular prism
- D. sphere

7.G.3

39. $0.775 \div 3.1 =$

- A. 250
- B. 25
- C. 2.5
- D. 0.25

7.NS.2c

38. To find out how many rabbits were in a park, students tagged 10 rabbits.

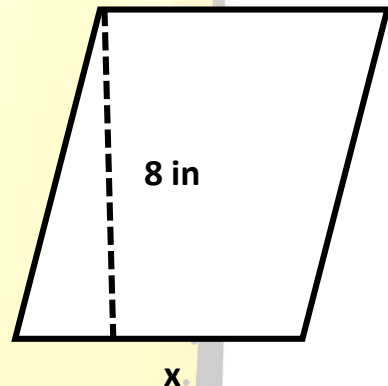
They later came back to the park and counted 200 total rabbits and 5 of them were tagged.

Using this information, what is the best estimate for the total number of rabbits in the park?

- A. 400
- B. 200
- C. 600
- D. 800

7.SP.2

40. If the area is 64 inches squared, what is the missing length?



- A. $x = 8$ in
- B. $x = 16$ in
- C. $x = 4$ in
- D. $x = 9$ in

7.G.6

Summer Math - Rising 8th Grade WEEK 9

41. $5\frac{1}{3} \div 1\frac{1}{3} =$

- A. $7\frac{1}{9}$
- B. $3\frac{1}{3}$
- C. $2\frac{2}{3}$
- D. 4

7.NS.2c

43. An angle has a measure of 25 degrees. What is the measure of a supplementary angle?

- A. 25 degrees
- B. 65 degrees
- C. 155 degrees
- D. 245 degrees

7.G.5

42. The snow cone truck sold 24 snow cones in the last hour. They sold the following amounts of each flavor:

Cherry	8
Orange	5
Grape	9
Lime	2

What is the experimental probability that the next snow cone sold will be cherry?

- A. $\frac{5}{24}$
- B. $\frac{1}{3}$
- C. $\frac{1}{12}$
- D. $\frac{3}{8}$

7.SP.7b

44. What is 3.25 as a fraction or mixed number in simplest form?

- A. $3\frac{1}{4}$
- B. $\frac{1}{4}$
- C. $\frac{325}{1000}$
- D. $\frac{3.25}{100}$

7.NS.2d

45. There are 5 blue beach balls and 5 red beach balls in a bin. You pick a beach ball at random and then put it back in the bin. Then you pick a second beach ball at random. What is the probability that you pick a blue then red beach ball?

- A. $\frac{1}{4}$
- B. $\frac{5}{18}$
- C. $\frac{1}{10}$
- D. $\frac{1}{9}$

7.SP.8a

Summer Math - Rising 8th Grade WEEK 10

46. During the game, you advance 4 spaces to the right and then move back 2 spaces to the left. If you started at 0, where did you finish?

- A. -4
- B. -2
- C. +4
- D. +2

7.NS.3

49. Simplify the expression:

$$4x + 3x - x$$

- A. $7x$
- B. $6x$
- C. $5x$
- D. $4x$

7.EE.1

47. Solve for y .

$$y - 5 = 4$$

- A. $y = 5$
- B. $y = 9$
- C. $y = 4$
- D. $y = -1$

7.EE.4a

50. The circumference of a circle is 18.84 cm. What is the radius? Use $\pi = 3.14$.

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

7.G.4

48. Calculate $\frac{5!}{2!}$

- A. $3!$
- B. 120
- C. 60
- D. 30

7.SP.8b

51. Jeremy is painting his room over the summer. Here are 4 different wall colors and 3 different trim colors. How many different ways can he paint his room?

- A. 7
- B. 4
- C. 12
- D. 8

7.SP.8b