

# Summer Packet (Part A)

1. *Mark only one oval.*

☐ Option 1

2. 1. Which shape always has four congruent sides?

1 point

*Mark only one oval.*

- ☐ A Parallelogram
- ☐ B Rectangle
- ☐ C Rhombus
- ☐ D Trapezoid

3. 2. Mia buys 5 yards of ribbon to make bracelets. She needs 18 inches of ribbon to make 1 bracelet. How many bracelets can Mia make if she uses all the ribbon she buys?

1 point

*Mark only one oval.*

- ☐ A 90
- ☐ B 10
- ☐ C 3
- ☐ D 2

4. 3. Penelope made a paper chain that was 6 feet 10 inches long. What was the length, in inches, of the paper chain? 1 point

*Mark only one oval.*

- ☐ A 82
- ☐ B 72
- ☐ C 60
- ☐ D 28

5. 4. Josie has a 1,364 page book to read over summer vacation. She wants to read the same number of pages each day for 62 days. What is the total number of pages Josie will need to read each day? 1 point

*Mark only one oval.*

- ☐ A 28
- ☐ B 27
- ☐ C 22
- ☐ D 17

6. 5. Bella has 6.3 kilograms of berries. She packs 0.35 kilogram of berries into each container. She then sells each container for \$2.99. How much money will Bella earn if she sells all the containers? 1 point

*Mark only one oval.*

- ☐ A \$52.62
- ☐ B \$50.32
- ☐ C \$56.72
- ☐ D \$53.82

7. 6. What is the product of  $(5/8) \times (3/4)$ ?

1 point

*Mark only one oval.*

- ☐ A  $8/32$
- ☐ B  $15/32$
- ☐ C  $8/12$
- ☐ D  $15/12$

8. 7. What is the value of this expression:  $(1/4) \div 8$

1 point

*Mark only one oval.*

- ☐ A  $1/32$
- ☐ B  $1/2$
- ☐ C 2
- ☐ D 32

9. 8. What is the value of:  $8 + 24 \div (2 \times 6) - 4$

1 point

*Mark only one oval.*

- ☐ A 92
- ☐ B 76
- ☐ C 11
- ☐ D 6

10. 9. What is the solution of:  $x + 8.63 = 11.001$

1 point

*Mark only one oval.*

☐ A 19.631

☐ B 10.138

☐ C 3.471

☐ D 2.371

11. 10. Which two expressions are equivalent for any value of  $y$ ?

1 point

*Mark only one oval.*

☐ A  $3(3y + 3)$  and  $6y + 6$

☐ B  $3(3y + 3)$  and  $9y + 6$

☐ C  $9(y + 3)$  and  $12 + 9y$

☐ D  $9(y + 3)$  and  $27 + 9y$

12. 11. The coordinates of the points represent the vertices of a rectangle: P: (2, 2); Q: (6, 2); R: (6, 5); S: (2, 5). What is the perimeter, in units, of rectangle PQRS?

1 point

*Mark only one oval.*

☐ A 8

☐ B 12

☐ C 14

☐ D 16

13. 12. What is the greatest common factor of 56 and 92?

1 point

*Mark only one oval.*

☐ A 2

☐ B 4

☐ C 7

☐ D 8

14. 13. A group of students organized a car wash to raise money for a local charity. The students charged \$5.00 for each car they washed. In 3 hours, they washed 12 cars. At that rate, how much money could they earn from washing cars for eight hours?

1 point

*Mark only one oval.*

☐ A \$40

☐ B \$60

☐ C \$85

☐ D \$160

15. 14. A leaky faucet is losing water and is filling a 5-gallon bucket every 20 hours. At that rate, how many gallons of water will the faucet leak in 48 hours?

1 point

*Mark only one oval.*

☐ A 12

☐ B 11

☐ C 15

☐ D 14

16. 15. To which set or sets below does the number  $-7/8$  belong?

1 point

*Mark only one oval.*

- ☐ A Whole numbers only
- ☐ B Rational numbers only
- ☐ C Integers and rational numbers only
- ☐ D Whole numbers, integers, and rational numbers

17. 16. You plotted points on a number line at the four values: 0.27,  $-1/4$ , 1.1,  $5/3$ . Which of these values is farthest from zero?

1 point

*Mark only one oval.*

- ☐ A 0.27
- ☐ B  $-1/4$
- ☐ C 1.1
- ☐ D  $5/3$

18. 17. You recorded outdoor temperatures as  $-7$  degrees,  $-2$  degrees, and 1 degree. Which of the following correctly compares the three temperatures?

1 point

*Mark only one oval.*

- ☐ A  $-7 < 1 < -2$
- ☐ B  $1 < -2 < -7$
- ☐ C  $-2 < 1 < -7$
- ☐ D  $-7 < -2 < 1$

19. 18. Which of the following is equivalent to the expression:  $(\frac{2}{9}) \times (\frac{3}{4})$

1 point

*Mark only one oval.*

☐ A  $(\frac{2}{9}) \div (\frac{3}{4})$

☐ B  $(\frac{3}{4}) \div (\frac{2}{9})$

☐ C  $(\frac{2}{9}) \div (\frac{4}{3})$

☐ D  $(\frac{9}{2}) \div (\frac{4}{3})$

20. 19. What is the greatest common factor of 12 and 48?

1 point

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☐ A 12

☐ B 24

☐ C 36

☐ D 48

21. 20. You are making a quilt using 15 red squares and 30 green squares. Which combination shows the same ratio of red squares to green squares?

1 point

*Mark only one oval.*

☐ A 3 red squares to 6 green squares

☐ B 6 red squares to 3 green squares

☐ C 5 red squares to 12 green squares

☐ D 12 red squares to 5 green squares

22. 21. What is the least common multiple of 5 and 12?

1 point

*Mark only one oval.*

- ☐ A 24
- ☐ B 30
- ☐ C 36
- ☐ D 60

23. 22. Last year, a local amusement park received 286,758 visitors. It was open every day of the year except 7 holidays. What was the average number of visitors to the park per day?

1 point

*Mark only one oval.*

- ☐ A 786 visitors
- ☐ B 801 visitors
- ☐ C 957 visitors
- ☐ D 1,204 visitors

24. 23. Dennis ran a mile in 593.7 seconds. Martina ran a mile in 573.36 seconds. What was the difference in their running times?

1 point

*Mark only one oval.*

- ☐ A 5.14 seconds
- ☐ B 6.01 seconds
- ☐ C 20.34 seconds
- ☐ D 26.01 seconds



25. 24. In Mr. Williams math class, there are 2 boys for every 3 girls. Which of the following could be the ratio of boys to girls in the class? 1 point

*Mark only one oval.*

☐ A 17/21

☐ B 14/21

☐ C 7/14

☐ D 11/17

26. 25. You buy a 12-ounce jar of peanut butter for \$3.60. What is the unit price? 1 point

*Mark only one oval.*

☐ A \$0.03/oz

☐ B \$0.30/oz

☐ C \$3.00/oz

☐ D \$3.03/oz

27. 26. On a certain map, 3 inches represents 15 miles. Briarwood and Middletown are 5 inches apart on the map. What is the actual distance between Briarwood and Middletown? 1 point

*Mark only one oval.*

☐ A 25 mi

☐ B 30 mi

☐ C 50 mi

☐ D 75 mi

28. 27. What are all the factors of 15?

1 point

*Mark only one oval.*

- ☐ A 1, 3, 5
- ☐ B 1, 3, 5, 10
- ☐ C 1, 2, 3, 5, 10
- ☐ D 1, 3, 5, 15

29. 28. Write an algebraic expression for the phrase: 8 more than three times a number n

1 point

*Mark only one oval.*

- ☐ A  $3 + 8n$
- ☐ B  $8n - 3$
- ☐ C  $3n - 8$
- ☐ D  $3n + 8$

30. 29. Which of the following expressions is equivalent to the expression:  $4(2x + 11 - x)$

1 point

*Mark only one oval.*

- ☐ A  $8x + 11$
- ☐ B  $x + 22$
- ☐ C  $2x - 11$
- ☐ D  $4x + 44$

31. 30. You buy a shirt for \$28.50 and a belt. The total cost was \$45.50. Which of the following equations can be used to find the cost of the belt? 1 point

*Mark only one oval.*

☐ A  $28.50 + b = 45.50$

☐ B  $45.50 + b = 28.50$

☐ C  $b = 28.50 - 45.50$

☐ D  $b = 28.50 \times 45.50$

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