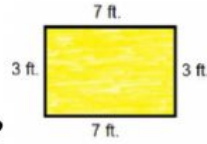1. What is the cube root of 216?

    a) 6   b) 9   c) 8   d) 7

2. What is the square root of 25?

    a) 9   b) 5   c) 23   d) 16

3. Round the 5.6793746 to five significant figures.

    a) 5.6793   b) 5.6794   c) 5.6789   d) 5.6792

4. What is the value of 8^2?

    a) 50   b) 44   c) 64   d) 70

5. What is the product of 3^3?

    a) 27   b) 28   c) 9   d) 16

6. Calculate the simple interest if $600 at 7% for 3 years.

    a) $126   b) $130   c) $128   d) $100

7. What is the result of the following: $6^4 \times 5^2$?

    a) 11^6 b) 30^6 c) 5×6^6 d) 15^6

8. What is the result of the following: $-120 + 19$?

    a) 100   b) 101   c) -100 d) -101

9. A TV is sold at $650 and has an option for a down payment of $50 and 12 monthly payments of $60. Calculate the total amount of monthly payments with the down payment.

    a) $650   b) $720   c) $770   d) $670

10. Which of the following is this expression simplified: $b \times b^3 \times b^7$

   a) b^9 b) b^{11} c) b^{12} d) b^{10}

11. What is the perimeter of this rectangle?

   a) 28 ft   b) 25 ft   c) 23 ft   d) 20 ft

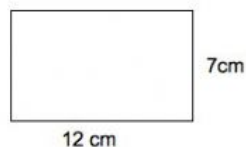12. Which property of Real Numbers does this expression below represent?
$$5 + 6 = 6 + 5$$

a) Commutative Property of Multiplication

b) Commutative Property of Addition

c) Associative Property of Addition

d) Associative Property of Multiplication

13. What is the sum of the following expression? $1923 + 256 + 19$

a) 2119   b) 2889   c) 2199   d) 2198
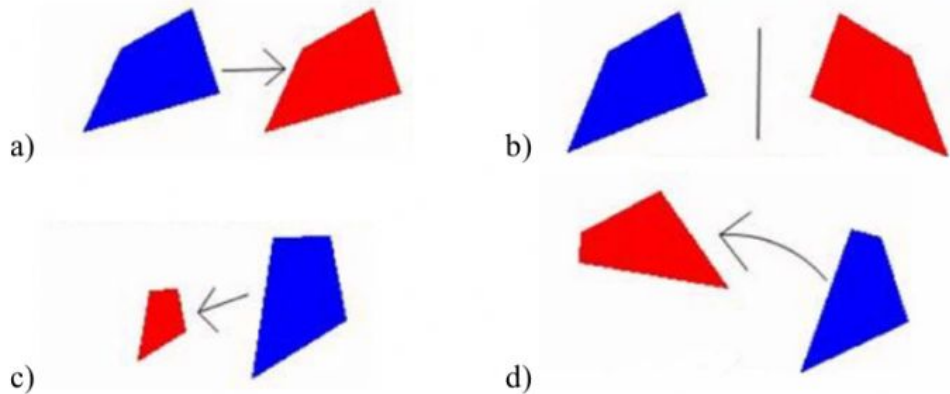
14. What is the value of $\sqrt[3]{512} + 2^3$?

   a) 16   b) 15   c) 20   d) 45

15. What is the area of the shape shown

   a) 12 cm   b) 84 cm   c) 84 cm^2 d) 12 cm^2

16. Which of the following images below shows the transformation of a reflection?
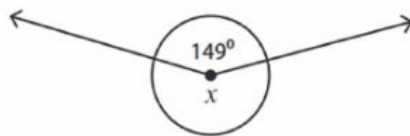
a)

b)

c)

d)

17. If you were to share $30 in the ratio 6:4, what would be the amount for 6 parts?

a) $12   b) $14   c) $16   d) $18

18. What is the value of x in this equation? $3x + 7 = 10$

a) $3x$ b) 3   c) 10   d) 1

19. Calculate the missing angle shown in the diagram.

149°

x

a) 200°   b) 212°   c) 234°   d) 211°

20. Calculate the mean of 2, 7, 8, 11.

a) 7   b) 8   c) 3   d) 9

21. What is the place value of the five (5) in this number shown 45.9?

    a) tens
    b) hundreds
    c) thousands
    d) ones

22. A BPL employee works over time of 6 hours which is calculated at time and a half, what amount of overtime is paid if he makes $7.25 an hour?

  a) $70.00   b) $65.00   c) $65.25   d) $72.25

23. What is the Least Common Multiple (LCM) of 4 and 12?

  a) 4   b) 8   c) 12   d) 16

24. What is the Highest Common Factor (HCF) of 12 and 16?

  a) 2   b) 4   c) 6   d) 8

25. Which of the following options represents the prime factors of 24?

  a) $2 \times 2 \times 4$ b) $2^3 \times 3$ c) $2 \times 2 \times 3^2$ d) $2 \times 2 \times 3 \times 3$

26. What is the solution to this question? $\dfrac{2}{3} \times \dfrac{4}{5}$

  a) $\dfrac{10}{12}$ b) $\dfrac{6}{8}$ c) $\dfrac{8}{15}$ d) $\dfrac{2}{5}$

27. What is the solution to this question? $\dfrac{2}{3} \div \dfrac{3}{4}$

  a) $\dfrac{6}{7}$ b) $\dfrac{17}{8}$ c) $\dfrac{8}{9}$ d) $\dfrac{16}{4}$

28. Which of the following expressions represents the phrase 7 more than x?

  a) $7x$ b) $7 + x$ c) $7 - x$ d) $\dfrac{7}{x}$

29. Which of the following sets below represents a subset of whole and prime numbers?

a) $\{4.5, 6.7, 8.3, 2.9\}$
b) $\{7.566, 5.285, 6.23\}$
c) $\{2, 4, 6, 8, 10, 12, 14\}$
d) $\{2, 3, 5, 7, 9, 11, 13, 17\}$

30. In the 24-hour clock 0000 hr. means _____.

    a) Midnight   b) Midday   c) Afternoon   d) Evening