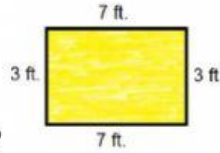


Placement Exam

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?

$$5 + 6 = 6 + 5$$

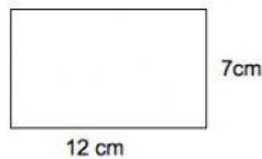
- a) Commutative Property of Multiplication
b) Commutative Property of Addition
c) Associative Property of Addition
d) Associative Property of Multiplication

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 $\sqrt[3]{512} + 2^3$?

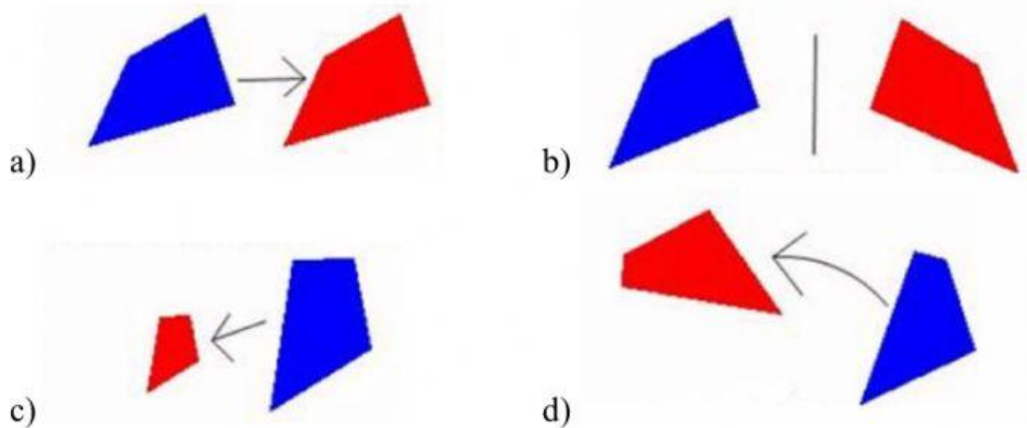
- a) 16 b) 15 c) 20 d) 45



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?



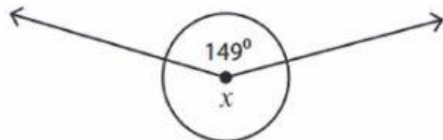
17. If you were to share \$30 in the ratio 6:4, what would be the amount for 6 parts?

- 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.



- 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? $\frac{2}{3} \times \frac{4}{5}$

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

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

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

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

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

Placement Exam

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