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

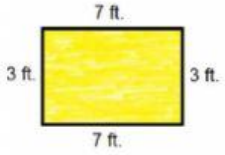
9. A TV is sold at \$650 and has an option for a down payment of \$50 and 12 monthly payments of \$60. Calculate the total amount of monthly payments with the down payment.

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

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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

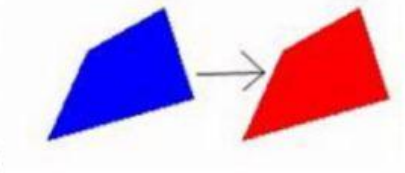


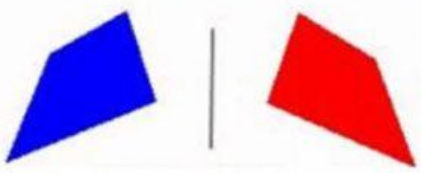
15. What is the area of the shape shown

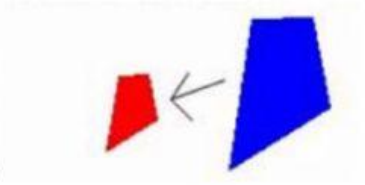
a) 12 cm b) 84 cm c) 84 cm^2 d) 12 cm^2

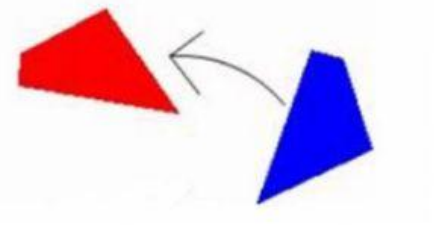
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16. Which of the following images below shows the transformation of a reflection?

a) 

b) 

c) 

d) 

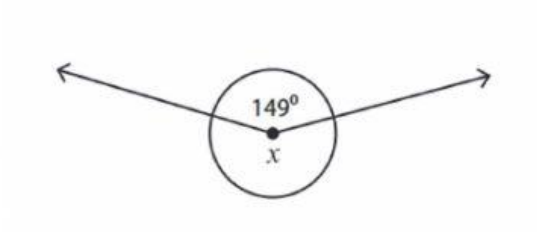
17. If you were to share $30 in the ratio 6:4, what would be the amount for 6 parts?

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.



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

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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) $\frac{7}{x}$

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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

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