



# Global Math Olympiad

## CLASS : 7 (SYLLABUS & SAMPLE QUESTIONS)

Number System and Its Operation, Simplification, Fractions and Decimals, Rational Numbers, Exponents, Algebraic Expression, Linear Equation, Percentage, Profit and Loss, Simple and Compound Interest Probability, Data Handling, Mensuration, Line, Angles and Triangles, Number Series Ratio and Proportion, Applied Mathematics, Mathematical Reasoning.

1. Solve  $0.3x + 0.4 = 0.28x + 1.16$

- (A) 20                      (B) 18  
(C) 30                      (D) 38  
(E) None of these

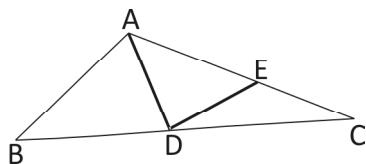
2. Teacher gives some books to James and Micheal and asked them to share among them self in the ratio 8 : 5. If James gets 24 books more than Micheal, then find the total number of books given by the teacher to them.

- (A) 40                      (B) 104  
(C) 64                      (D) 120  
(E) None of these

3. Three years ago, the mean age of Harison's family of 5 members was 17. A baby having been born, the average age of his family remains same today. The present age of baby is

- (A) 1 yr                      (B) 1.5 yr  
(C) 2 yr                      (D) 2.5 yr  
(E) None of these

4. In the adjoining figure, points D and E are on sides AB and AC of a  $\triangle ABC$  so that  $AB = AD = DE = CE = BD$ , then find the supplement of angle A.



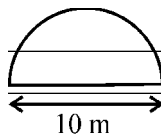
- (A)  $80^\circ$                       (B)  $40^\circ$

- (C)  $100^\circ$                       (D)  $120^\circ$   
(E) None of these

5. If the compound interest on a sum for 2 years at 12% per annum is 510. What would the simple interest on the same sum at the same rate for the same period.

- (A) Rs. 400                      (B) Rs. 450  
(C) Rs. 460                      (D) Rs. 480  
(E) None of these

6. Find the perimeter of the adjoining figure which is a semicircle including its diameter. (Where  $\pi = 3.147$ )



- (A) 25 m                      (B) 20 m  
(C) 25.7 m                      (D) 20.7 m.

7. Micheal bought a car for Rs 80,000. He spent Rs 8,000 on repairs and spent Rs 1,500 on other things. If he sold the car for Rs 1,20,000, then the nearest gain % will be

- (A) Rs 30.08%                      (B) Rs 32.2%  
(C) Rs 34.29%                      (D) Rs 35%  
(E) None of these

8. Stev travels from Sanghai to Beijing by his car in 2 hours, if he reduces the speed of his car by 30km/hr, then he takes 3.2 hours for the same distance. Find the distance between the two towns.



- (A) 160 km (B) 120 km  
 (C) 140 km (D) 180 km  
 (E) None of these

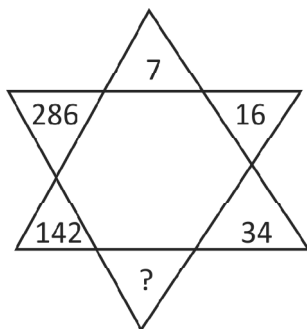
9. If Peter is taller than Stephen but shorter than Jack and Stephen is just as tall as Katherine but taller than Victor, then Katherine is

- (A) Just as tall as Peter  
 (B) Taller than Jack  
 (C) Shorter than Peter  
 (D) Shorter than Stephen  
 (E) None of these

10. Sofia started walking straight towards South. She walked a distance of 15 m and then took a left turn and walked a distance of 30 m. Then she took a right turn and walked a distance of 15 m again. Sofia is facing which direction?

- (A) North East (B) South  
 (C) North (D) South - West  
 (E) None of these

11. Find the number at the place of question mark.



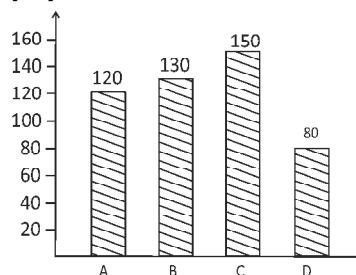
- (A) 72 (B) 70  
 (C) 68 (D) 66  
 (E) None of these

12. Austin leaves his house at 20 min to seven in the morning, reaching Mark's house in

25 min, and leave for their office which takes another 35 min. At what time do they leave Mark's house to reach their office?

- (A) 7.20 am (B) 7.40 am  
 (C) 7.45 am (D) 8.15 am  
 (E) None of these

13. The graph represents the population of the city. Which city has minimum population.



- (A) A (B) B  
 (C) C (D) D  
 (E) None of these

14. X, Y and Y, Z are the two pairs of adjacent angles of a parallelogram. Then which one of the following is not true?

- (A)  $X + Z = 2X$   
 (B)  $X + Y = Z$   
 (C)  $X + 2Y + Z = 360$   
 (D)  $X + Y = Y + Z$   
 (E) None of these

15. 10 % of X is 4 more than 16 % of Y. Represent the given statement in algebraic expression?

- (A)  $\frac{X}{10} = \frac{4Y}{25} + 4$  (B)  $\frac{X}{10} + 4 = \frac{4Y}{25}$   
 (C)  $\frac{4X}{10} = \frac{Y}{25}$  (D)  $\frac{X}{10} = \frac{2Y}{25} + 4$   
 (E) None of these

**ANSWERS**

1. (D) 2. (B) 3. (C) 4. (A) 5. (D) 6. (B) 7. (B) 8. (A)  
 9. (C) 10. (B) 11. (B) 12. (A) 13. (D) 14. (B) 15. (A)