



VIDYA BHARATI SCHOOL
OLYMPIAD WORKSHEET: July-2017
GRADE: VII
SUBJECT: MATHEMATICS

1. The supplement of 72° is -
(a) 72° (b) 18° (c) 108° (d) 180°
2. The compliment of 58° is -
(a) 32° (b) 58° (c) 112° (d) 90°
3. A --- joins the vertex of a triangle to the mid-point of the opposite side.
(a) altitude (b) median (c) angle bisector (d) hypotenuse
4. If one acute angle of a right triangle is 25° , then the other angle is -
(a) 60° (b) 65° (c) 25° (d) 55°
5. If $\frac{3}{15}$ of a number is 1, the number is -
(a) 15 (b) $\frac{5}{3}$ (c) 25 (d) $\frac{2x}{3}$
6. Ajay's age after 7 years will be 18, his age 5 years ago was -
(a) 6 (b) 4 (c) 7 (d) 16
7. The cost of a dozen pencils is Rs. 72, so the cost of 2 pencils is -
(a)Rs. 36 (b) Rs. 12 (c) Rs. 10 (d) Rs. 6
8. If $15x = 68 - 19x$, then x is -
(a) 1 (b) 2 (c) -2 (d) -1
9. If 5 more than 3 times a number is 17, then the number is-
(a) 4 (b) 5 (c) 2 (d) 3
10. If $42 = 7(5 + x)$, then x is-
(a) -1 (b) 1 (c) 0 (d) 30
11. The sum of two consecutive numbers is 27. Their product will be-
(a) 54 (b) 182 (c) 20 (d) None of these

12. The length of a rectangle is 2 times its width and the perimeter of the rectangle is 60 cm. The area of the rectangle is -
(a) 100 cm^2 (b) 300 cm^2 (c) 200 cm^2 (d) None of these
13. 7 subtracted from 5 times a number is 43, the number is -
(a) 10 (b) 20 (c) 36 (d) None of these
14. What is the formula for range -
(a) lower limit – upper limit (b) upper limit – lower limit
(c) upper limit/lower limit (d) None of these

Based on below data answer Q 13 to Q 16:

4, 6, 7, 5, 3, 5, 4, 5, 2, 6, 2, 5, 1, 9, 6, 5, 8, 4, 6, 7

15. Which number is the highest -
(a) 9 (b) 7 (c) 3 (d) 6
16. Which number is the lowest –
(a) 0 (b) 1 (c) 7 (d) 9
17. What is the range of the data –
(a) 9 (b) 7 (c) 3 (d) 8
18. What is the arithmetic mean -
(a) 5 (b) 9 (c) 7 (d) 1

Based on below data answer Q 17 to Q 18:

19, 25, 23, 20, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20

19. If the two small side of a right-angled triangle are 11 cm, then the square of the hypotenuse is -
(a) 3600 cm (b) 121 cm (c) 3721 cm (d) 242 cm
20. In triangle abc, if $ab = 7 \text{ cm}$, $bc = 8 \text{ cm}$, then which of the following cannot be the length of ac?
(a) 17 cm (b) 16 cm (c) 14 cm (d) none of these

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www.olympiadhelper.com