

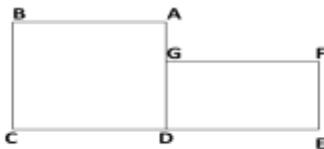


VIDYA BHARATI SCHOOL

OLYMPIAD WORKSHEET: DECEMBER 2017

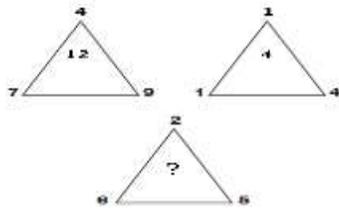
CLASS- VIII

1. Kirti stands in a line of people. She is the 25th person counting from the front of the line. She is the 12th person counting from the rear. How many people are in the line?
a. 36 b. 35 c. 34 d. 32
2. 3, 4, 7, 11, next two terms are:
a. 16, 23 b. 18, 29 c. 17, 24 d. 19, 27
3. The sum of the three consecutive even numbers is 222. Find the numbers.
a. 73, 74, 75 b. 74, 74, 74 c. 72, 74, 76 d. none
4. The ratio of girls: boys in a school is 5: 7. if there are 525 girls, how many boys are there?
a. 375 b. 625 c. 735 d. 325
5. Find the length of a side of the square. $AB + BC + CD + DE + EF + FG + GA = 180$ cm



- a. $AG=5$ cm, others= 30cm b. $AG=5$ cm, others= 3cm
c. $AG=50$ cm, others= 30cm d. $AG=15$ cm, others= 130cm
6. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
a. 4 b. 8 c. 10 d. none
7. One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?
a. East b. West c. North d. south
8. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?
a. West b. South c. North-east d. South-west
9. Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?
a. 12 b. 14 c. 27 d. 53

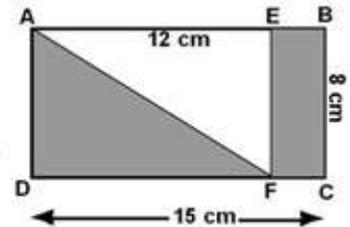
10. Which no. replaces the question mark?



- a. 11 b. 12 c. 9 d. 5

11.

ABCD and EBCF are both rectangles. The length of \overline{CD} is 15 cm. The length of \overline{BC} is 8 cm. The length of \overline{AE} is 12 cm. Find the total number of sq cm in the areas of the shaded regions.



- a. 72 sq . cm b. 62 sq. cm c. 100 sq.cm d. 150 sq.m

12. I climb half the steps in a staircase. Next I climb one-third of the remaining steps. The I climb one-eighth of the rest and stop to catch my breath. What is the smallest possible number of steps in the staircase?

- a. 24 b. 22 c. 13 d. 15

13. In a group of 25 girls, 8 run for the track team, 13 are on the math team, and 6 are on both teams. How many of the girls are not on either team?

- a. 11 b. 10 c. 20 d. 30

14. May 25, 2025 will occur on a Sunday. On which day of the week will May 1, 2025 occur?

- a. Monday b. Wednesday c. Thursday d. Saturday

15. The average of a group of 20 numbers is 20. The average of a different group of 60 numbers is 60. The two groups of numbers are combined into a single group. What is the average of the combined group?

- a. 26 b. 40 c. 50 d. 60

16. A cubicle box without a top is 4 cm on each edge. It contains 64 identical 1 cm cubes that exactly fill the box. How many of these small cubes actually touch the box?

- a. 62 b. 32 c. 42 d. 52

17. The length of the longest pole that can be put in a room of dimensions 10m x 10m x 5m is

- a. 16m b. 15m c. 10 m d. 12 m

18. The whole numbers from 100 down to 0 are arranged in columns P, Q, R, S and T as indicated. Write the letter of the column that contains the number 25.

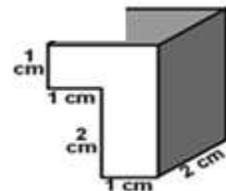
P	Q	R	S	T
	100	99	98	97
93	94	95	96	
	92	91	90	89
85	86	87	88	
	84	83	82	81
77	78	79	80	
				<i>and so on</i>

19. In each turn of a certain game, only the following point-scores are possible 5,3,2,0. Eight turns are taken. In how many ways can the total point-score be 25?

Do not consider the order in which points are scored

- a. 5 combinations b. 7 combinations c. 6 combinations d. 25 combinations

20. What is the largest number of these wooden “Eis” that can be packed in a box that is 2 cm by 4 cm by 6 cm?



- a. 1 b. 3 c. 6 d. 7

*For more practice material please click:www.brilliant.org;www.sofolympiadtrainer.com; www.olympiadhelper.com *