



RAMAGYA SCHOOL, NOIDA
VII/ MATHEMATICS/2017-2018
OLYMPIAD PRACTICE WORKSHEET

Concept

1. $4.539+6.1+4.643=$
a. 15.282 b. 12.943 c. 13.942 d. 14.932
2. Expressed as decimals $\frac{1}{4}$
(A) 0.002 (B) 0.25 (C) 1.2 (D) 0.125
3. 3kg 40g is equal to
(A) 3.40kg (B) 3.040kg (C) 340g (D) 3.004kg
4. The sum of 3.0011 and 0.3322 is:
(A) 3.0302 (B) 3.1122 (C) 3.2211 (D) 3.3333

Application

5. The sum of two integers is 19. If one of them is -43. Find the other.
a. -37 b. 62 c. 40 d. -40
6. Add -75 to the difference of -16 and 89.
a. -140 b. -145 c. 140 d. -180
7. A decimals number lying between 3.2 and 3.22 is
a. 3.118 b. 3.218 c. 3.3 d. 3.23
8. The expression 5 reduced from 3 times x is:
a. $5x-3$ b. $5-3x$ c. $3x+5$ d. $3x-5$
9. The solution of the equation $3x+4=1$ is:
a. 1 b. 0 c. -1 d. 2
10. If there are x chairs in a row, then the number of students that can be seated in rows are:
(A) $7+x$ (B) $7x$ (C) 35 (D) x^2
11. In a classroom there are x rows. If each row $\frac{x}{3}$ benches and each bench can accommodate 4 students, find the seating capacity of the classroom.
(A) $\frac{4x}{3}$ (B) $\frac{x^2}{3}$ (C) $\frac{4x^2}{3}$ (D) $\frac{4x+3}{3}$
12. The length of the rectangle is 3 times its breadth. The area of the rectangle in terms of its breadth x is:
(A) $3x$ (B) $3x^2$ (C) $5x^2$ (D) $8x^2$

HOTS

13. If $2(5x-2)=4$, then $x=$

- (A) $\frac{1}{4}$ (B) $\frac{3}{5}$ (C) $\frac{4}{5}$ (D) one

14. If $6(\frac{1}{2}x + 1) = 12$, then $x =$

- (A) 1 (B) 4 (C) 5 (D) 2

15. $(3-x)(2+7x)=6+\underline{\hspace{2cm}}-7x^2$

- (A) $-19x$ (B) $-12x$ (C) $9x$ (D) $11x$

16. $(2x+3y)(x+2y)=2x^2 + \underline{\hspace{1cm}} + 6y^2$

- (a) $2xy$ (B) $5xy$ (C) $7xy$ (D) $3xy$

17. In Parul's garden, there are 25 rows of vegetables. She has five more rows of peppers than tomatoes and two fewer rows of cucumbers than tomatoes. If y represents the number of rows of tomatoes in the garden, which number sentence can be used to find how many rows of each vegetable were planted?

- (A) $y + (y + 5) + (y + 2) + y = 25$ (B) $(y + 5) + y = 25$
(C) $(y + 5) + (y - 2) = 25$ (D) $(y + 5) + (y - 2) + y = 25$

18. Which of the following fractions is closest to 0?

- A) $\frac{5}{12}$ B) $\frac{2}{3}$ C) $\frac{5}{6}$ D) $\frac{3}{4}$

19. If $3a$ and $2b$ denote the length and breadth of a rectangle, then its perimeter is:

- (A) $3a+2b$ (B) $a+b$ (C) $2(a+b)$ (D) $6a+4b$

20. Sita is Radha's younger sister. Sita is 7 years younger to Radha. Write Radha's age in terms of Sita's age?

- (A) $(x+3)$ years (B) $(x+7)$ years (C) $(x+4)$ years (D) $(4x)$ years