



RAMAGYA SCHOOL, NOIDA

VII/MATHEMATICS/2017-18 OLYMPIAD PRACTICE WORKSHEET

(Concept based)

- In addition and subtraction of two integers, sign of the answer depends upon
(A) Smaller number (B) Their difference (C) Their sum (D) Greater numerical value
- The sum of the rational numbers $-8/19$ and $-4/57$ is _____
(A) $-5/57$ (B) $7/22$ (C) $-28/57$ (D) $4/27$
- What number should be subtracted from $-3/4$ so as to get $5/6$?
(A) $-3/10$ (B) $-5/24$ (C) $-19/12$ (D) $9/25$
- Which of the following represents $1/3$ of $1/6$?
(A) $1/3 + 1/6$ (B) $1/3 - 1/6$ (C) $1/3 \times 1/6$ (D) $1/3 \div 1/6$
- If $25 \times 32 = 800$ then $2.5 \times .32 =$ _____
(A) 0.800 (B) 8.00 (C) 80.0 (D) .0800
- The reciprocal of a negative rational number _____
(A) is a positive rational number (B) is a negative rational number
(C) either a positive or a negative rational number (D) does not exist

(Application based)

- Sam bought $2 \frac{7}{5}$ kg of flour in one week and $3 \frac{4}{15}$ kg of flour in second week. Flour Sam bought altogether is
(A) $7 \frac{2}{3}$ (B) $5 \frac{2}{3}$ (C) $6 \frac{2}{3}$ (D) $4 \frac{2}{3}$
- A puppy weighed 0.2 kg at birth. The puppy now weighs 30.7 kg. How many times heavier is it today than at birth?
(A) 1535 (B) 1530 (C) 153.5 (D) 6.4
- The product of two numbers is $-20/9$. If one of the numbers is 4, find the other.
(A) $-5/9$ (B) $3/11$ (C) $12/39$ (D) $-9/11$
- What number should be placed in the place of blank to make the equation true?
 $5.32 - \underline{\quad} = 5.32 + (-7.89)$
(A) 2.57 (B) -2.57 (C) -7.89 (D) 7.89

11. Find the area of a rectangular park which is $183/5$ m long and $50/3$ m broad.
(A) 510 m^2 (B) 610 m^2 (C) 630 m^2 (D) 530 m^2

(HOTS)

12. Mr. Adams drives a school bus twice a day for 5 days a week. Each trip averages 35.8 miles. In one week Mr. Adams drives how many miles?

(A) 358 miles (B) 385 miles (C) 835 miles (D) 538 miles

13. In mid-day meal scheme $3/10$ litres of milk are given to each student of a primary school. If 30 litres of milk are distributed every day in the school, how many students are there in the school?

(A) 90 students (B) 150 students (C) 100 students (D) 200 students

14. Fill in the blanks: $-12 + (7/12 + -9/11) = (-12 + 7/12) + (\text{_____})$

(A) $9/11$ (B) $-7/12$ (C) $-9/11$ (D) $7/12$

(Value based)

15. An airplane covers 1020 km in an hour. How much distance will it cover in $25/6$ hours?

(A) 4250 km (B) 4520 km (C) 2450 km (D) 4052 km

16. Marcus bought 8.6 kg of sugar. He poured the sugar equally into 5 bottles. There was 0.35 kg of sugar left over. What was the mass of sugar in 1 bottle?

(A) 7.12 Kg (B) 1.65 Kg (C) 5.61 Kg (D) 2.15 Kg

(Logical Reasoning)

17. Pointing to a lady, a man said "The son of her only brother is the brother of my wife" how is the lady related to that man?

(A) Mother's Sister (B) Sister of Father-in-law (C) Maternal Aunt (D) Grandmother

18. In a certain code, RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code?

(A) 318826 (B) 318286 (C) 618826 (D) 328816

19. 'Match' is related to 'Victory' in the same way as 'Examination' is related to:

(A) Write (B) Appear (C) Success (D) Attempt

20. Ravi travelled 4 km straight towards South. He turned left and travelled 6 km straight, then turned right and travelled 4 km straight. How far is he from the starting point?

(A) 8 km (B) 10 km (C) 12 km (D) 18 km