

ATOMIC ENERGY CENTRAL SCHOOL, MYSORE

Class VII Session 2025-26

MATHEMATICS HOLIDAY HOME WORK

1. Choose the correct option.

a. On subtracting $8\frac{5}{12}$ from the sum of $5\frac{1}{6}$ and $3\frac{1}{4}$, we get

- i. 1 ii. 0 iii. 2 iv. 1

2. The result of the product of $\frac{4}{5}$, $\frac{7}{9}$, $\frac{1}{8}$ and a fourth fraction is 1, then the fourth fraction is

- i. $\frac{90}{7}$ ii. $\frac{7}{90}$ iii. $\frac{2}{7}$ iv. $\frac{5}{7}$

3. If $\frac{1}{8}$ part of a silver coin costs ₹ 5789, then the cost of the whole coin is

- i. ₹ 723.63 ii. ₹ 46312 iii. ₹ 23156 iv. ₹ 11578

4. $\frac{91}{144} \div 5\frac{5}{12} \times 8\frac{4}{7}$ is equal to

- i. $\frac{1}{7}$ ii. $\frac{5}{7}$ iii. 1 iv.

5. Difference of $\frac{1}{6}$ of 90 and $\frac{2}{3}$ of 15 is

- i. 0 ii. 5 iii. 10 iv. 15

6. The number of pieces each of length $2\frac{1}{2}$ cm that can be cut out from a wire of length $12\frac{1}{2}$ cm is

- i. 5 ii. 6 iii. 8 iv. 3

7. Ravi spends $\frac{3}{5}$ of his salary and saves the remaining. If his income is ₹ 15000, then his saving is

- i. ₹ 10000 ii. ₹ 9000 iii. ₹ 6000 iv. ₹ 5000

8. Mr. Mishra's weight on a particular month was $95\frac{1}{2}$ kg. If in the following month he lost $4\frac{1}{5}$ kg, then his new weight is

- i. $91\frac{3}{10}$ kg ii. 91 kg iii. $90\frac{3}{10}$ kg iv. 90 kg

9. $\frac{3}{5}$, $\frac{6}{10}$, $\frac{24}{40}$ and $\frac{72}{120}$ are all _____ fractions.

- i. improper ii. equivalent iii. unlike iv. complete

10. Two fractions inserted between $\frac{1}{2}$ and $\frac{3}{5}$ are

- i. $\frac{4}{7}$, $\frac{7}{12}$ ii. $\frac{3}{6}$, $\frac{4}{8}$ iii. $\frac{4}{6}$, $\frac{5}{6}$ iv. $\frac{1}{8}$, $\frac{1}{16}$

11. The number to be multiplied by $\frac{2}{5}$ to get $\frac{18}{25}$ is

- i. $\frac{4}{5}$ ii. $\frac{36}{125}$ iii. $1\frac{4}{5}$ iv. $\frac{9}{125}$

11. When a positive integer is divided by a negative integer, the quotient is

- a. a negative integer
b. a positive integer
c. can be both
d. cannot be determined

12. The next number in the pattern $-10, -7, -4, -1, \dots$ is _____.

- i. 0 ii. 2 iii. 3 iv. -2

13. $(-100) - (-189) =$ _____.

- i. -289 ii. 289 iii. 89 iv. -89

14. Natural numbers less than 7 are represented as
 i. $x \leq 7, x \in \mathbf{N}$ ii. $x > 7, x \in \mathbf{N}$ iii. $x \geq 7, x \in \mathbf{N}$ iv. $x < 7, x \in \mathbf{N}$
15. Sum of two negative integers is always
 a. a negative integer
 b. a positive integer
 c. a positive or a negative integer
 d. none of these
16. The additive identity for integers is _____.
 a. 0 b. 1 c. -1 d. 10
17. The value of $20 \times 5 - 2 + 14 \div 7$ is
 a. 100 b. 62 c. 60 d. 70
18. $3 \times 2 \times 1 \times 0 \times -1 \times -2 \times -3$ is equal to
 a. 36 b. -36 c. 0 d. 72
19. $(-1) \times (-1) \times \dots$ 11 times is _____.
 a. 11 b. (-11) c. (-1) d. 1
20. $1 \div a = 1$, if $a =$ _____.
 a. -1 b. 1 c. 0 d. 10
21. If $A = (-14 + 4)$ and $B = 4 - 14$, then $A \times B =$ _____.
 a. 0 b. 100 c. -100 d. None of these
22. $(-72) \div [(-36) \div (-2)] =$ _____.
 a. -4 b. 4 c. -1 d. 1
23. $4 \div 1/5 =$ _____.
 a. 5/4 b. 4/5 c. 20 d. None of these
24. Two fractions are said to be reciprocals of each other if their
 a. sum is 1 b. sum is 0 c. product is 1 d. difference is 1
25. $1/2 \div 1/4 =$ _____.
 a. 4 b. 2 c. 1/2 d. None of these

State whether the following statements are true or false.

26. Sum of the positive improper fractions may be a proper fraction.
27. A proper fraction can be greater than 1.
28. The reciprocal of a mixed fraction is a proper fraction.
29. Two or more fractions are equivalent if their simplest form have the same denominator.
30. $2/7 < 8/11$
31. $50\frac{1}{2} - 8\frac{1}{4} - 10\frac{1}{2}$ is equal to $31\frac{3}{4}$.
32. If the weight of 30 boxes is $15\frac{1}{2}$ kg, then the weight of 1 box is 2 kg.
33. If $5/12$ part of a 60 m long stick is coloured white and the rest black, then the length of the black part is 35 m.

Fill in the blanks.

34. If $3/7$ part of a total weight is 294 kg, then the total weight is _____.

36. $5 - \left(3\frac{3}{4} + 1\frac{1}{4}\right)$ is equal to _____. Weight of each block of wood in a box is $15\frac{1}{2}$ kg. If the number of blocks is 12, then the total weight is _____.
37. If A can complete $\frac{2}{3}$ of a work in 12 days, then he completes the whole work in _____ days.
38. $\frac{3}{5}$ part of a park is occupied by a group of boys playing cricket. If the total area is 2000 sq. m, find the unoccupied area.
39. On a rainy day in a class of 45 students, 9 students were absent. What fraction of the students were present?
40. A man won a lottery of ₹ 5,00,000. He paid $\frac{1}{5}$ part as tax to the government and $\frac{1}{4}$ part to an orphanage. What part of the money is still left with him?
41. A pump is attached to a tank of capacity 5000 litres. The pump fills up the tank in 50 minutes. What amount of water does it fill in 1 minute? What fraction of the whole is filled in 1 minute?
42. Find the fraction equivalent to $\frac{29}{13}$ whose numerator is 261.
43. Ram is $\frac{3}{5}$ of Shyam's age and Shyam is $\frac{5}{7}$ of Raju's age. If Raju's age is 21 years, find Ram's and Shyam's age.
- 44 Simplify the following:
- $[(-8) + (-16) + (-14)] \div |-19|$
 - $(-3) \times (-5) + (-6) \times 5$
 - $(-15) - 10 + 9 + 17$
 - $45 \div (-15) + 5 \times (-6) \times (-2)$
45. Find the unknown integer 'x' satisfying the following conditions.
- $x + (|-10) = 0$
 - $(-x) + (-2) = 0$
46. Write the following integers in ascending order.
- 3, -3, 2, 4, -5, 6, -7, 10
 - 0, 3, -4, 2, -5, 12, -6, -11
47. Simplify and give your answer in the simplest form.
- $(-6) \times (-8) \div (-12)$
 - $(-15) \times 7 \times (-3)$
 - $32 \times (-9) \times (-6)$
48. Write 8 consecutive odd integers.
- succeeding (-7)
 - succeeding (-205)
49. Find the sum of each of the following using the number line.
- 7 and (-5)
 - $|-5|$ and $|5|$
 - $|-3|$ and $|-4|$
50. Subtract the sum of (-39) and 54 from the sum of (-28) and 33.

