BCM School, Chandigarh Road
A Senior Secondary School of BCM Foundation
Affiliated to CBSE, New Delhi
Class -7th Fraction and Decimals **Date- April 2025**

MCQ

1. Which of the following is a improper fraction?
   (a) $\frac{2}{5}$ (b) $\frac{1}{2}$ (c) $\frac{-4}{7}$ (d) $\frac{7}{3}$
2. What is the value of $\frac{6}{9}+\frac{2}{6}+\frac{7}{3}$?
   (a) $\frac{10}{3}$ (b) $\frac{10}{9}$ (c) $\frac{30}{3}$ (d) $\frac{10}{27}$.
3. What is the value of 29.35 – 04.56?
   (a) 23.75 (b) 16.35 (c) 16.25 (d) 24.79
4. Which one of the following is greater?
   (a) 9.0 (b) 0.9 (c) 0.009 (d) 0.09
5. The value of 1.3 x 3.1 is :
   (a) 403 (b) 0.403 (c) 4.03 (d)0.0403
6. The value of 7.75 ÷ 0.25 is :
   (a) 31 (b) 0.0031 (c) 0.31 (d) 3.1
7. The reciprocal of $1\frac{4}{6}$ is :
   (a) $\frac{3}{2}$ (b) $\frac{10}{27}$ (c) $\frac{5}{3}$ (d) $\frac{3}{5}$.
8. The place value of 4 in 41.38 is :
   (a) Ones (b) tens (c) tenth (d) hundredth
9. When the product of two fractions is unity, each is called the
   (a) denominator of the other (b) numerator of the other
   (c) additive inverse of the other (d) reciprocal of the other
10. To divide a decimal number by 1000, shift the decimal point to the left by
    (a) one place (b) 2 places (c) 3 places (d) 4 places
11. Solve 70.5 ÷ 1.5 =
    (a) 47 b) 4.7 c) 470 d) 0.47
12. The product of a rational number and its reciprocal is always equal to
    (a) 0 (b) 1 (c) -1 (d) None of these

Questions Subjective type

13. Each side of a square field is 7.5 m. find the perimeter of the square field.
14. Find the average of 6.2, 5.6 and 9.8.
15. Each side of a polygon is 13.1 cm and its perimeter is 65.5cm. How many sides does the polygon have?
16. Simplify:

(a) $7-3\frac{1}{2}-2\frac{1}{2}$ (b) $3\frac{1}{8}\times 2\frac{2}{5}\times 1\frac{3}{5}$

(c) $11.2\times 0.15\div\frac{4}{5}$ (d) $3\frac{3}{7}\div\frac{8}{21}\times\frac{1}{27}$

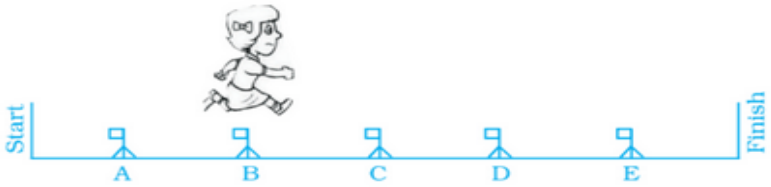
17. $\frac{1}{8}$ of a number equals $\frac{2}{5}\div\frac{1}{12}$. What is the number?
18. A square paper sheet has $10\frac{2}{5}$cm long side. Find its perimeter and area.
19. The weight of an object on the Moon is $\frac{1}{6}$ its weight on the Earth. If an object weight $5\frac{3}{5}$ kg on the Earth. How much would it weight on the Moon?
20. A picture hall has seats for 820 persons. At a recent film show, one usher guessed it was $\frac{3}{4}$ full, another that it was $\frac{2}{3}$ full. The ticket office reported 648 sales. Which usher (first or second) made the better guess?
21.

Shade:

(a) $\frac{2}{3}$ of the triangles.

22. Case Study

In a hurdle race, Nidhi is over hurdle B and $\frac{2}{6}$ of the way through the race, as shown in figure.



Then, answer the following:

(a) Where will Nidhi be, when she is $\frac{4}{6}$ of the way through the race?
(b) Where will Nidhi be when she is $\frac{5}{6}$ of the way through the race?
(c) Give two fractions to tell what part of the race Nidhi has finished when she is over hurdle C.

23. The students of Class 7 decided to run a school store during their school festival. They bought various items in bulk and then sold them individually to the students and teachers. Here are some details of their purchases and sales:They bought 250 pens for ₹8.50 each. They bought 150 notebooks for ₹12.75 each. They bought 100 geometry sets for ₹25.25 each.They sold each pen for ₹12.00. They sold each notebook for ₹18.50. They sold each geometry set for ₹ 30.00.
Questions:

1. What was the total cost of purchasing all the pens?
2. What was the total cost of purchasing all the notebooks?
3. What was the total revenue earned by selling all the pens?
4. What was the total revenue earned by selling all the geometry sets?
5. Calculate the total profit earned by the class from selling all the items?

24. Assertion and reason questions

a. Both A and R are true and R is the correct explanation of A
b. Both A and R are true and R is not the correct explanation of A
c. A is true but R is false
d. A is false but R is true.

- **Assertion (A) –> 5/10=1.25**
  Reason (R) ->Decimals can be written in fraction form. To convert a decimal to a fraction, place the decimal number over its place value.

- **Assertion (A)->2/10+3/100+4/1000=0.234**
- **Reason (R) –> To add two decimal numbers, first check if they have the same number of digits to the right of the decimal point.**

Answers- Q1- (d). Q2- (a), Q3- (d), Q4 –(a) , Q5- (c),Q6 –(a), Q7 –(d), Q8 -(b), Q9-(d) ,Q10-(c), Q11-(a),Q-12-(b) ,Q13- 30m , Q14- 7.2 , Q15- 5 sides Q16- (a) 1 ,(b) 12, (c) 2.1 (d) 1/3 Q17- 38.4 Q18- Perimeter 41.6 cm and area 108.16 sq cm Q19- 0.94 approx, Q20 First Usher Q21- 6 triangles will be shaded Q22. (a) D (b) E (c) 3/6 , ½. Q23. 1) ₹2125.00 2) ₹1912.50 3) ₹3000.00 4) ₹3000 5) ₹2212.50 Q24- 1) a 2) a