

MCQ

1. Which of the following is a proper fraction?  
(a)  $\frac{7}{5}$  (b)  $\frac{1}{2}$  (c)  $\frac{-4}{7}$  (d)  $\frac{4}{3}$
2. What is the value of  $\frac{2}{3} + \frac{1}{3} + \frac{7}{3}$ ?  
(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) 5.0 (b) 0.5 (c) 0.005 (d) 0.05
5. The value of  $1.3 \times 3.1$  is :  
(a) 403 (b) 0.403 (c) 4.03 (d) 0.0403
6. The value of  $7.75 \div 0.25$  is :  
(a) 31 (b) 0.0031 (c) 0.31 (d) 3.1
7. The reciprocal of  $1\frac{2}{3}$  is :  
(a)  $\frac{3}{2}$  (b)  $\frac{10}{27}$  (c)  $\frac{5}{3}$  (d)  $\frac{3}{5}$
8. The place value of 2 in 21.38 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  $70.5 \div 1.5 =$   
(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 5.5 m. find the perimeter of the square field.
14. Find the average of 4.2, 3.6 and 7.8.
15. Each side of a polygon is 3.5 cm and its perimeter is 17.5cm. 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. How many pieces of length  $2\frac{2}{5}$  meter can be cut from  $6\frac{1}{5}$  meter of cloth?

18.  $\frac{1}{8}$  of a number equals  $\frac{2}{5} \div \frac{1}{12}$ . What is the number?

19. A square paper sheet has  $10\frac{2}{5}$ cm long side. Find its perimeter and area.

20. 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?

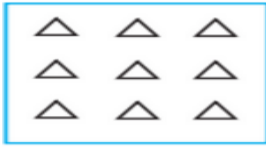
21. A picture hall has seats for 820 persons. At a recent film show, one usher guessed it was  $\frac{3}{4}$  full, another that it was  $\frac{2}{3}$  full. The ticket office reported 648 sales. Which usher (first or second) made the better guess?

22. For the celebrating children's students of Class VII bought sweets for Rs.740.25 and cold drink for Rs.70. If 35 students contributed equally what amount was contributed by each student?

23.

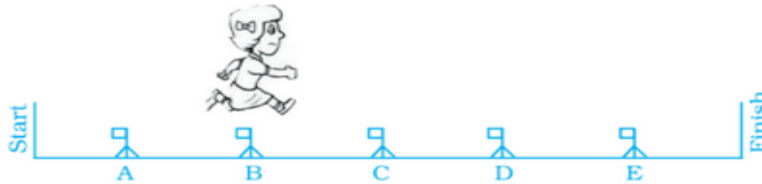
Shade:

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



#### 24. 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:

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

#### 25. Assertion and reason questions

- Both A and R are true and R is the correct explanation of A
  - Both A and R are true and R is not the correct explanation of A
  - A is true but R is false
  - A is false but R is true.
- Assertion (A)  $\rightarrow 5/10=1.25$**   
**Reason (R)  $\rightarrow$  Decimals can be written in fraction form. To convert a decimal to a fraction, place the decimal number over its place value.**
  - Assertion (A)  $\rightarrow 2/10+3/100+4/1000=0.234$**
  - Reason (R)  $\rightarrow$  To add two decimal numbers, first check if they have the same number of digits to the right of the decimal point.**

Answers- Q1- (b). Q2- (a), Q3- (d), Q4 -(a) , Q5- (c), Q6 -(a), Q7 -(d), Q8 -(b), Q9-(d) , Q10-(c), Q11-(a), Q12-(b) , Q13- 22m , Q14- 5.2 , Q15- 5 sides Q16- (a) 1m ,(b) 12, (c) 2.1 (d)  $1/3$  Q17-  $19/5$  Q18- 38.4 Q19- Perimeter 41.6 cm and area 108.16 sq cm Q20- 0.94 approx, Q21 First Usher Q 22. Rs 23.15 Q23- 6 triangles will be shaded Q24. (a) D (b) E (c)  $3/6$  ,  $1/2$ . Q25- 1) a 2) a