


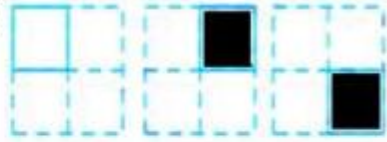



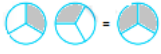






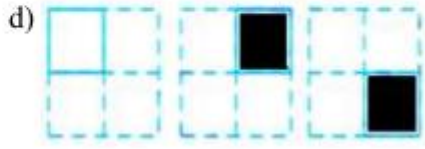
Class :VII

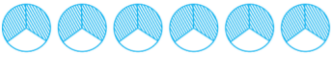
Worksheet No.-1


Subject:- Mathematics

Name of the chapter :- Fractions and Decimals.

Section A		
1	<p>Which of the drawings show $2 \times \frac{1}{2}$</p> <p>a) </p> <p>b) </p> <p>c) </p> <p>d) </p>	[1]
2	<p>Which of the following represents $\frac{1}{3}$ of $\frac{1}{6}$?</p> <p>a) $\frac{1}{3} \div \frac{1}{6}$</p> <p>b) $\frac{1}{3} - \frac{1}{6}$</p> <p>c) $\frac{1}{3} + \frac{1}{6}$</p> <p>d) $\frac{1}{3} \times \frac{1}{6}$</p>	[1]
3	<p>Tell which of them show $3 \times \frac{3}{4} = 2\frac{1}{4}$</p> <p>a) </p> <p>b) </p> <p>c) </p> <p>d) None of these</p>	[1]
4	<p>Find: $22.5 \div 0.15 =$</p> <p>a) 5</p> <p>b) None of these</p> <p>c) 15</p> <p>d) 150</p>	[1]
5	<p>$2.5 \div 1000$ is equal to</p> <p>a) 0.0025</p> <p>b) 25000</p> <p>c) 0.2500</p> <p>d) 0.025</p>	[1]

6	<p>Reciprocal of $\frac{7}{9}$ is _____.</p> <p>a) $\frac{7}{9}$ b) $\frac{9}{7}$ c) $\frac{1}{63}$ d) 63</p>	[1]
7	<p>Which of the drawings show $3 \times \frac{1}{4}$</p> <p>a) </p> <p>b) </p> <p>c) </p> <p>d) </p>	[1]
8	<p>Find: $28.9 \div 0.17 =$</p> <p>a) 170 b) 20 c) 16 d) 15</p>	[1]
9	<p>A ribbon of length $5\frac{1}{4}$ m is cut into small pieces each of length $\frac{3}{4}$ m. Number of pieces will be:</p> <p>a) 7 b) 8 c) 6 d) 5</p>	[1]
10	<p>Joe bought 7 liters of orange juice. He poured the orange juice equally into 5 bottles. There was 0.25 liters of orange juice left. What was the volume of juice in 1 bottle?</p> <p>a) 6 liters b) 1.5 liters c) 1.35 liters d) 5 liters</p>	[1]
Section B		
11	<p>State true or false: The reciprocal of a proper fraction is a proper fraction.</p>	[1]
12	<p>State true or false: A reciprocal of a fraction is obtained by inverting it upside down.</p>	[1]
13	<p>State true or false: The value of $\frac{3}{7} \times \frac{4}{5}$ is $\frac{12}{35}$.</p>	[1]
14	<p>Fill in the blanks:</p>	[1]

	$\frac{1}{2}$ of 36 boxes is _____.	
15	Fill in the blanks: $4.7 \div 10 =$ _____.	[1]
16	Fill in the blanks: $8.4 \div$ _____ $= 2.1$.	[1]
17	Assertion (A): $\frac{2}{3}$ of 8 is the same as $= \left(\frac{2}{3}\right) \times 8$. Reason (R): $\left(\frac{2}{3}\right) \times 8 = \frac{1}{12}$. a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.	[1]
18	Assertion (A): $\frac{3}{7}$ is obtained when we divide a whole into seven equal parts and take three parts. Reason (R): A fraction is a number representing part of a whole. a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.	[1]
19	Assertion (A): The value of product of two proper fractions is always less than each of the fraction. Reason (R): $\frac{4}{7} \times \frac{3}{7} = \frac{12}{49}$. a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.	[1]
20	Assertion (A): 12 is $\frac{3}{4}$ of 24. Reason (R): $\frac{3}{4} \times 24 = 12$. a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.	[1]
	Section C	
21	Multiply and express as a mixed fraction: $4 \times 6\frac{1}{3}$	[2]
22	Which is greater: $\frac{1}{2}$ of $\frac{6}{7}$ or $\frac{2}{3}$ of $\frac{3}{7}$	[2]
23	Multiply and express as a mixed fraction: $3 \times 5\frac{1}{5}$	[2]
24	Find $\frac{2}{3}$ of 6 using circles with shaded parts. 	[2]
25	Find: $0.3 \div 100$	[2]
26	Renu completed $\frac{2}{3}$ part of her home work in 2 hours. How much part of her home work had she completed in $1\frac{1}{4}$ hours?	[2]

27	Cost of a burger is ₹ $20\frac{3}{4}$ and of Macpuff is ₹ $15\frac{1}{2}$. Find the cost of 4 burgers and 14 macpuffs.	[2]
28	How many $\frac{1}{16}$ kg boxes of chocolates can be made with $1\frac{1}{2}$ kg chocolates?	[2]
29	Find: $432.6 \div 100$	[2]
30	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?	[2]
Section D		
31	Vidya and Pratap went for a picnic. Their mother gave them a water bottle that contained 5 litres of water. Vidya consumed $\frac{2}{5}$ of the water. Pratap consumed the remaining water. 1. How much water did Vidya drink? 2. What fraction of the total quantity of water Pratap drink?	[3]
32	1. Provide the number in the box —, such that $\frac{2}{3} \times - = \frac{10}{30}$ 2. The simplest form of the number obtained in— is ____.	[3]
33	The product of two numbers is $25\frac{5}{6}$. If one of the numbers is $6\frac{2}{3}$, find the other.	[3]
34	There is a $3 \times 3 \times 3$ cube which consists of twenty seven $1 \times 1 \times 1$ cubes (see Figure). It is tunneled by removing cubes from the coloured squares.  Find: 1. Fraction of number of small cubes removed to the number of small cubes left in given cube. 2. Fraction of the number of small cubes removed to the total number of small cubes. 3. What part is (ii) of (i)?	[3]
35	Find the area of a square field if its each side is $10\frac{3}{4}$ m long.	[3]
Section E		
36	Multiply the fractions: 1. $2\frac{1}{3}$ by $\frac{2}{5}$ 2. $5\frac{3}{4}$ by $2\frac{3}{7}$	[5]
37	The product of two numbers is $20\frac{5}{7}$. If one of the numbers is $6\frac{2}{3}$, find the other.	[5]
38	The length of a rectangular plot of area $68\frac{3}{4}$ sq.m. is $12\frac{1}{2}$ m, find its width.	[5]
Section F		
39	Read the text carefully and answer the questions: Sushant reads $\frac{1}{3}$ part of a book in 1 hour. Lipika reads $1\frac{1}{2}$ part same book in 1 hour.	[5]



1. The value of the product of two improper fractions is _____ than each of the two fractions.
2. How much part of the book will Sushant read in $2\frac{1}{5}$ hours?
 - a) $\frac{2}{15}$
 - b) $\frac{1}{15}$
 - c) $\frac{11}{15}$
 - d) $\frac{1}{5}$
3. How much part of the book will Lipika read in $2\frac{1}{5}$ hours?
 - a) $3\frac{1}{10}$
 - b) $3\frac{3}{10}$
 - c) $3\frac{2}{10}$
 - d) $2\frac{1}{10}$
4. Who reads more in 1 hour and by how much?
 - a) Sushant reads more by $1\frac{1}{6}$
 - b) Both reads equal part
 - c) Lipika reads more by $1\frac{1}{6}$
 - d) None of these
5. The value of the product of two proper fractions is greater than each of the two fractions.
 - (a) True
 - (b) False.

40

Read the text carefully and answer the questions: In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English, $\frac{2}{5}$ of the total number like to study Mathematics

[5]



and the remaining students like to study Science.

1. To multiply a whole number with a proper or an improper fraction, we multiply the whole number with the _____ of the fraction keeping the denominator same.
2. How many students like to study English?
 - a) 10
 - b) 8
 - c) 5
 - d) 6
3. How many students like to study Mathematics?
 - a) 2
 - b) 8
 - c) 4
 - d) 16
4. What fraction of the total number of students like to study Science?
 - a) $\frac{2}{5}$
 - b) $\frac{4}{5}$
 - c) $\frac{8}{5}$
 - d) $\frac{3}{5}$
5. To multiply a mixed fraction to a whole number, first convert the mixed fraction to an improper fraction and then multiply.
 - (a) True
 - (b) False.