KERALA PUBLIC SCHOOLS

HOME ASSIGNMENT (6TH TO 17TH JULY)

CLASS	SUBJECT	TOPIC / CHAPTER	MODULE / ASSIGNMENT	REFERENCE LINKS
V	**MATHS**	**FRACTION** 6-7-20 7-7-20 8-7-20 9-7-20 10.7.20 11.7.20 13.7.20 14.7.20 15.7.20 16.7.20 17.7.20 18.7.20	**Ex 7 B** 1 (a, c, e) , 2 (b, c) , 3(a, b) **Ex 7 B** 4 (a, b, c) , 5 (a, c) **Ex 7 B** 6(b, c) , 7 **Ex 7 C** 1 (a , c) , 2 (a , c) , 3 (b, d) **Ex 7 C** 4 (a , c ,e) , 5 (b, d, f) **Ex 7D** 1 (a, b , c , d) **Ex 7 D** 1 (e , f, g , h) **Ex 7 E** 2, 3, 4 **Ex 7 E** 6 , 7 , 8 **Worksheet** 1 (b, c , d) 2 (b, c , d) **Worksheet** 3 (b, c , d) **Worksheet** 4 (b, d) , 5, 6	https://youtu.be/jRVBlON-hIc

ANSWERS

EX 7 D

(e) $\frac{7}{9}$ x $1\frac{1}{5} \div \frac{8}{15}$

$= \frac{7}{9} \times \frac{6}{5} \div \frac{8}{15}$

$= \frac{7}{\cancel{9}_{3}} \times \frac{\cancel{6}^{2}}{5} \times \frac{\cancel{15}^{3}}{\cancel{8}_{4}} = \frac{7}{4}$

(f) $(\frac{1}{5} + \frac{1}{5}) \times 3\frac{1}{3}$

$= \frac{2}{\cancel{5}_{1}} \times \frac{\cancel{10}^{2}}{3} = \frac{4}{3}$

(g) $\frac{4}{7} \div [\ 1\frac{2}{7} - \frac{3}{14}\ ]$

$= \frac{4}{7} \div [\ \frac{9}{7} - \frac{3}{14}\ ]$

$= \frac{4}{7} \div \frac{18-3}{14}$

$= \frac{4}{7} \div \frac{15}{14}$

$= \frac{4}{\cancel{7}_{1}} \times \frac{\cancel{14}^{2}}{15} = \frac{8}{15}$

(h) $7 + \{ \frac{1}{3} + \frac{2}{9} + (\frac{7}{4} - \frac{5}{12})\}$

$= 7 + \{ \frac{1}{3} + \frac{2}{9} + \frac{21-5}{12} \}$

$= 7 + \{ \frac{1}{3} + \frac{2}{9} + \frac{16}{12} \}$

$= 7 + \frac{12+8+48}{36}$ (taking L.C.M of 3,9,12 and adding)

$= 7 + \frac{68}{36}$

$= \frac{252+68}{36}$ (taking L.C.M of 1and 36 and adding)

$= \frac{320}{36} = 8\frac{8}{9}$

EX 7 E

(2) $\frac{7}{9}$ of a number is 63. (To find the number divide 63 by $\frac{7}{9}$)

$= 63 \div \frac{7}{9}$

$= {}^{9}\cancel{63} \times \frac{9}{\cancel{7}_{1}} = 81$

(3) $36 \div \frac{6}{7}$

$= {}^{6}\cancel{36} \times \frac{7}{\underset{1}{6}} = 42$

(4) Number of students = 45

Fraction of girls = $\frac{3}{5}$

No of girls = $\frac{3}{\cancel{5}_{1}} \times \cancel{45}^{9} = 27$

∴No of boys = 45 -27 = 18

(6) No of slices of pizza = 8

No of persons = 3

Fraction of pizza each person ate = $\frac{1}{4}$

Slices of pizza each person ate = $\frac{1}{4}$ x 8 = 2 slices

Slices of pizza all three persons ate = 2 x 3 = 6 slices

∴ Remaining slices of pizza = 8 – 6 = 2 slices

(7) Distance between two stops = 75 Km

Distance covered by bus = 25 Km

∴ Fraction of distance covered = $\frac{25}{75} = \frac{1}{3}$

Fraction of distance to be covered

Total distance = 75 Km

Distance already covered = 25 Km

Distance left = 50 Km

∴ Fraction of distance to be covered = $\frac{50}{75} = \frac{1}{3}$

(8) Number of students in class = 150

Fraction of students opted for Sanskrit = $\frac{1}{3}$

Number of students opted for Sanskrit = $\frac{1}{\cancel{3}_{1}}$ x $\cancel{150}^{50}$ = 50 students

Fraction of students opted for Hindi = $\frac{2}{5}$

Number of students opted for Hindi = $\frac{2}{\cancel{5}_{1}}$ x $\cancel{150}^{30}$ = 60 students

∴ Students opted for French = Total students – (Students opted for Sanskrit and Hindi)

= 150 – (50 + 60)= 150 – 110 = 40 students

Worksheet

1(b) $\frac{1}{25}$ of 125

= $\frac{1}{\cancel{25}_{1}}$ x $\cancel{125}^{5}$= 5

1(c) $3\frac{3}{4}$ of 16

= $\frac{15}{\cancel{4}_{1}}$ x $\cancel{16}^{4}$= 60

1(d) $\frac{2}{3}$ of 15

= $\frac{2}{\cancel{3}_{1}}$ x $\cancel{15}^{5}$= 10

2 (b) $\frac{2}{5}$ x $\frac{25}{8}$

$\frac{\cancel{2}}{\cancel{5}_{1}} \times \frac{\cancel{25}^{5}}{\cancel{8}_{4}} = \frac{5}{4}$

2 (c) $2\frac{1}{7} \times \frac{49}{60}$

$= \frac{\cancel{15}^{1}}{\cancel{7}_{1}} \times \frac{\cancel{49}^{7}}{\cancel{60}_{4}} = \frac{7}{4}$

2(d)6 $\frac{2}{8} \times \frac{1}{2}$

$= \frac{\cancel{50}^{25}}{\cancel{8}} \times \frac{1}{\cancel{2}_{1}} = \frac{25}{8}$

3 (b) $5\frac{1}{3} \div 4$

$= \frac{16}{3} \div 4$

$= \frac{\cancel{16}^{4}}{3} \times \frac{1}{\cancel{4}_{1}} = \frac{4}{3}$

3(c) $\frac{4}{5} \div 2\frac{1}{2}$

$= \frac{4}{5} \times \frac{2}{5} = \frac{8}{25}$

3(d) $1\frac{2}{7} \div \frac{3}{2}$

$= \frac{\cancel{9}^{3}}{7} \times \frac{2}{\cancel{3}_{1}} = \frac{6}{7}$

4 (b) $\frac{4}{15} \times \left(\frac{2}{4} + \frac{3}{4}\right)$

$= \frac{\cancel{4}^{1}}{\cancel{15}_{3}} \times \frac{1}{\cancel{4}_{1}} = \frac{1}{3}$

4 (d) $\frac{3}{4} \times \frac{2}{3} + \frac{3}{4} \times \frac{2}{6}$

			$\frac{1}{2}\frac{3}{4}\frac{1}{2} \times \frac{1}{1}\frac{2}{3} + \frac{1}{2}\frac{3}{4} \times \frac{1}{2}\frac{2}{6}$ $= \frac{1}{2} + \frac{1}{4}$ $= \frac{2+1}{4} = \frac{3}{4}$ (5) $40 \div \frac{1}{2}$ - 40 = 40 x 2 – 40 = 80 -40 = 40 (6) Quantity of milk herd of cows gives everyday = 4 litres Quantity of milk each cow gives = $\frac{1}{3}$ x 4 litres = $\frac{4}{3}$ litres ∴ No of cows = Total quantity of milk ÷ Quantity of milk each cow gives $= 4 \div \frac{4}{3} = {}^{1}4 \times \frac{3}{4}{}_{1} = 3$ cows.	

R Lakshmi

DIRECTOR ACADEMICS