



MONTH : SEPTEMBER

SESSION : 6

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 9

CHAPTER NAME : FRACTION

SUB-TOPIC : WORD PROBLEMS OF FRACTIONS

EXERCISE 9 D NO. 3 to 6

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE :

Enable the students

- **To write statements of story sums of fraction.**
- **To find the fractional values of different operations.**
- **To reduce to their lowest term**

Fractions



Fractions Word Story Problems

EXAMPLE.1

Jin ate 3 slices of pizza. Rose ate 2 slices of pizza. There are 8 slices in a pizza pie. What fraction of pizza is left?

Total no. of slices in a pizza pie = 8

No. of slices Jin ate = 3 or $\frac{3}{8}$

No. of slices Rose ate = 2 or $\frac{2}{8}$

$$\text{No. of slices they ate} = \frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$

$$\text{No. of slices left} = \frac{8}{1} - \frac{5}{8} = \frac{3}{8}$$

• • $\frac{3}{8}$ pizza is left.



EXERCISE – 9 D



Fractions Word Story Problems

3. A train covered $36\frac{3}{4}$ km in the 1st hour, $40\frac{2}{5}$ km in the 2nd hour and 38 km in 3rd hour. Find the total distance covered by the train in 3 hours.

Solution

Distance covered in 1st hour = $36\frac{3}{4}$ km

Distance covered in 2nd hour = $40\frac{2}{5}$ km

Distance covered in 3rd hour = 38 km

$$\text{Total distance covered} = 36\frac{3}{4} + 40\frac{2}{5} + \frac{38}{1} = \frac{147}{4} + \frac{202}{5} + \frac{38}{1}$$

$$= \frac{147 \times 5 + 202 \times 4 + 38 \times 20}{20}$$



EXERCISE – 9 D



Fractions Word Story Problems

$$= \frac{735 + 808 + 760}{20} = \frac{2303}{20} = 115 \frac{3}{20}$$

- total distance covered in 3 hour is $115 \frac{3}{20}$ km.



EXERCISE – 9 D

4. Rakesh spent $1\frac{1}{4}$ hours to finish Math homework, $1\frac{3}{4}$ hours to do his science homework and $\frac{3}{4}$ hours to do his English homework. How long did he take to complete his homework?

Solution

$$\text{Time spent for Math h.w} = 1\frac{1}{4} = \frac{5}{4} \text{ hours}$$

$$\text{Time spent for science h.w} = 1\frac{3}{4} = \frac{7}{4} \text{ hours}$$

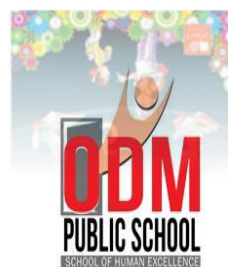
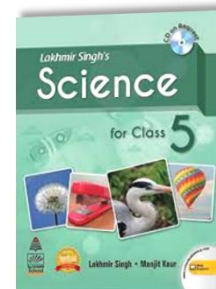
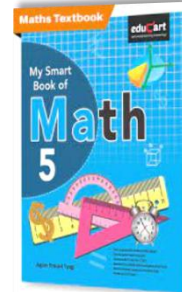
$$\text{Time spent for English h.w} = \frac{3}{4} \text{ hours}$$

$$\text{Total time spent} = \frac{5}{4} + \frac{7}{4} + \frac{3}{4} = \frac{15}{4} = 3\frac{3}{4}$$

• He spent $3\frac{3}{4}$ hours to complete his homework.



Fractions Word Story Problems



EXERCISE – 9 D



Fractions Word Story Problems

5. The distance between two places is 100 km. Anil travelled first $33\frac{2}{3}$ km by bus and remaining distance by train.

Find the distance Anil travelled by train.



Solution

Total distance = 100 km

Distance travelled by bus = $33\frac{2}{3}$ km

$$\begin{aligned}\text{Distance travelled by train} &= 100 - 33\frac{2}{3} \\ &= \frac{100}{1} - \frac{101}{3} = \frac{3 \times 100 - 101}{3} \\ &= \frac{300 - 101}{3} = \frac{199}{3} = 66\frac{1}{3}\end{aligned}$$

\therefore He travelled $66\frac{1}{3}$ km by train.



EXERCISE – 9 D



6. Sachin Tendulkar batted for a total of $2\frac{3}{5}$ hours. First he batted with Ganguly for $1\frac{1}{3}$ hours and then with Rahul Dravid for rest of the periods. How long did he bat with Rahul Dravid?

Solution

$$\text{Total hours he batted} = 2\frac{3}{5} = \frac{13}{5} \text{ hrs.}$$

$$\text{Time he batted with Ganguly} = 1\frac{1}{3} = \frac{4}{3} \text{ hrs.}$$

$$\begin{aligned} \text{Time he batted with Rahul Dravid} &= \frac{13}{5} - \frac{4}{3} \\ &= \frac{3 \times 13}{15} - \frac{5 \times 4}{15} = \frac{39 - 20}{15} \\ &= \frac{19}{15} = 1\frac{4}{15} \end{aligned}$$



∴ He batted $1\frac{4}{15}$ hours with Rahul Dravid

The logo for 'Learning Outcomes' features the word 'Learning' in a bold, black, sans-serif font with a yellow outline and a drop shadow. A small red apple with a green leaf is positioned above the letter 'i'. Below 'Learning' is the word 'Outcomes' in the same bold, black, sans-serif font with a yellow outline and a drop shadow. To the left of the text is a blue graduation cap with a tassel.

Learning Outcomes

Students are able to write the statements of story sums of fraction and identify the operations to be followed to find the answers.

THANKING YOU
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