Chapter 2: Fractions and Decimals, Class 4



CLASS NOTES-ANSWERS

EXERCISE 2.2

1. Which of the drawings (a) to (d) show:



2. Some pictures (a) to (c) are given below. Tell which of them show:





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iii.
$$3 \times \frac{3}{4} = 2\frac{1}{4} = \frac{9}{4}$$
 represents (b)

3. Multiply and reduce to lowest form and convert into a mixed fraction:

i. 7 × ³ / ₅	ii. $4 \times \frac{1}{3}$	iii. 2 × $\frac{6}{7}$	iv. 5 × $\frac{2}{9}$	v. $\frac{2}{3} \times 4$
vi. $\frac{5}{2} \times 6$	vii. 11 × $\frac{4}{7}$	viii. 20 × $\frac{4}{5}$	ix. 13 × $\frac{1}{3}$	x. 15 × $\frac{3}{5}$

Answer:

- i. $7 \times \frac{3}{5} = \frac{21}{5} = 4\frac{1}{5}$ ii. $4 \times \frac{1}{3} = \frac{4}{3} = 1\frac{1}{3}$ iii. $2 \times \frac{6}{7} = \frac{12}{7} = 1\frac{1}{3}$ iv. $5 \times \frac{2}{9} = \frac{10}{9} = 1\frac{1}{9}$ v. $\frac{2}{3} \times 4 = \frac{8}{3} = 2\frac{2}{3}$ vi. $\frac{5}{2} \times 6 = \frac{30}{2} = 15$ vii. $11 \times \frac{4}{7} = \frac{44}{7} = 6\frac{2}{7}$ viii. $20 \times \frac{4}{5} = \frac{80}{5} = 16$ ix. $13 \times \frac{1}{3} = \frac{13}{3} = 4\frac{1}{3}$ x. $15 \times \frac{3}{5} = \frac{45}{5} = 9$
- 4. Shade:
 - (i) $\frac{1}{2}$ of the circles in box (a) (ii) $\frac{2}{3}$ of the triangles in box (b) (iii) $\frac{3}{5}$ of the squares in box (c).



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Answer: (i) $\frac{1}{2}$ of the circles = $\frac{1}{2} \times 12 = 6$ circles are to be shaded.

(ii) $\frac{2}{3}$ of the triangles = $\frac{2}{3} \times 9 = 6$ triangles are to be shaded.

(iii)
$$\frac{3}{5}$$
 of the squares = $\frac{3}{5} \times 15 = 9$ squares are to be shaded.

5. Find:



^{6.} Multiply and express as a mixed fraction:



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	a. 3 × 5 $\frac{1}{5}$	b. !	$5 \times 6 \frac{3}{4}$	c. 7 × 2	$\frac{1}{4}$
	d. $4 \times 6\frac{1}{3}$	e. 3	$3\frac{1}{4} \times 6$	f. $3\frac{2}{5} \times$	8
Ar	nswer:				
	a. 3 × 5 $\frac{1}{5}$ =	$3 \times \frac{26}{5} = -$	$\frac{78}{5} = 15\frac{3}{5}$		
	b. 5 × 6 $\frac{3}{4}$ =	$=5 \times \frac{27}{4} = \frac{1}{4}$	$\frac{335}{4} = 33\frac{3}{4}$		
	c. 7 × 2 $\frac{1}{4}$ =	$7 \times \frac{9}{4} = \frac{63}{4}$	$\frac{3}{4} = 15 \frac{3}{4}$		
	d. $4 \times 6\frac{1}{3} =$	$4 \times \frac{19}{3} = \frac{7}{3}$	$\frac{16}{3} = 25 \frac{1}{3}$		
	e. $3\frac{1}{4} \times 6 =$	$=\frac{13}{4} \times 6 =$	$\frac{13 \times 3}{2} = \frac{39}{2} =$	$19\frac{1}{2}$	
	f. $3\frac{2}{5} \times 8 =$	$\frac{17}{5} \times 8 =$	$\frac{136}{5} = 27\frac{1}{5}$	DEN SCH	
			II I		<u>o</u>
7. Fir	nd:			GO	`★
	a. $\frac{1}{2}$ of	(i) $2\frac{3}{4}$	(ii) $4\frac{2}{9}$	NO /	6508
	b. $\frac{5}{8}$ of	(i) 3 ⁵ / ₆	(ii) $9\frac{2}{3}$	anjirappally	

Answer:

a. (i)
$$\frac{1}{2}$$
 of $2\frac{3}{4} = \frac{1}{2} \times \frac{11}{4} = \frac{11}{8} = 1\frac{3}{8}$
(ii) $\frac{1}{2}$ of $4\frac{2}{9} = \frac{1}{2} \times \frac{38}{9} = \frac{38}{18} = \frac{19}{9} = 2\frac{1}{9}$
b. (i) $\frac{5}{8}$ of $3\frac{5}{6} = \frac{5}{8} \times \frac{23}{6} = \frac{115}{48} = 2\frac{19}{48}$
(ii) $\frac{5}{8}$ of $9\frac{2}{3} = \frac{5}{8} \times \frac{29}{3} = \frac{145}{24} = 6\frac{1}{24}$

8. 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.



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- (i) How much water did Vidya drink?
- (ii) What fraction of the total quantity of water did Pratap drink?

Answer:

Total quantity of water in a bottle = 5 liters

(i) Water consumed by Vidya = $\frac{2}{5} \times 5 = 2$

Thus, Vidya consumed 2 liters of water.

(ii) Water consumed by Pratap = $1 - \frac{2}{5} = \frac{3}{5}$

Thus, $\frac{3}{5}$ of the total water is consumed by Pratap.

