

CLASS -7 MATHEMATICS

CHAPTER-2 Exercise-2.2

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

(i) $7 \times (3/5)$

Solution:

$$= (7/1) \times (3/5)$$

$$= (7 \times 3) / (1 \times 5)$$

$$= (21/5)$$

$$= 4 \frac{1}{5}$$

(ii) $4 \times (1/3)$

Solution:-

$$= (4/1) \times (1/3)$$

$$= (4 \times 1) / (1 \times 3)$$

$$= (4/3)$$

$$= 1 \frac{1}{3}$$

(iii) $2 \times (6/7)$

Solution:

$$= (2/1) \times (6/7)$$

$$= (2 \times 6) / (1 \times 7)$$

(iii) $2 \times (6/7)$

Solution:

$$\begin{aligned} &= (2/1) \times (6/7) \\ &= (2 \times 6) / (1 \times 7) \\ &= (12/7) \\ &= 1 \frac{5}{7} \end{aligned}$$

(iv) $5 \times (2/9)$

Solution:

$$\begin{aligned} &= (5/1) \times (2/9) \\ &= (5 \times 2) / (1 \times 9) \\ &= (10/9) \\ &= 1 \frac{1}{9} \end{aligned}$$

(v) $(2/3) \times 4$

Solution:-

$$\begin{aligned} &= (2/3) \times (4/1) \\ &= (2 \times 4) / (3 \times 1) \\ &= (8/3) \\ &= 2 \frac{2}{3} \end{aligned}$$

$$= (8/3)$$

$$= 2 \frac{2}{3}$$

(vi) $(5/2) \times 6$

Solution:-

$$= (5/2) \times (6/1)$$

$$= (5 \times 6) / (2 \times 1)$$

$$= (30/2)$$

$$= 15$$

(vii) $11 \times (4/7)$

Solution:

$$= (11/1) \times (4/7)$$

$$= (11 \times 4) / (1 \times 7)$$

$$= (44/7)$$

$$= 6 \frac{2}{7}$$

(viii) $20 \times (4/5)$

Solution:-

$$= (20/1) \times (4/5)$$

$$= (20 \times 4) / (1 \times 5)$$

$$= (80/5)$$

$$= 16$$



← Input title



$$= (20 \times 4) / (1 \times 5)$$

$$= (80/5)$$

$$= 16$$

(ix) $13 \times (1/3)$

Solution:-

$$= (13/1) \times (1/3)$$

$$= (13 \times 1) / (1 \times 3)$$

$$= (13/3)$$

$$= \frac{1}{4} \frac{3}{3}$$

(x) $15 \times (3/5)$

Solution:-

$$= (15/1) \times (3/5)$$

$$= (15 \times 3) / (1 \times 5)$$

$$= (45/5)$$

$$= 9$$

5. Find:

(a) $\frac{1}{2}$ of (i) 24 (ii) 46

Solution:-

(i) 24

$$= \frac{1}{2} \times 24$$



5. Find:

(a) $\frac{1}{2}$ of (i) 24 (ii) 46

Solution:-

(i) 24

$$= \frac{1}{2} \times 24$$

$$= 24/2$$

$$= 12$$

(ii) 46

$$= \frac{1}{2} \times 46$$

$$= 46/2$$

$$= 23$$

(b) $\frac{2}{3}$ of (i) 18 (ii) 27

Solution:-

(i) 18

$$= \frac{2}{3} \times 18$$



(b) $\frac{2}{3}$ of (i) 18 (ii) 27

Solution:-

(i) 18

$$= \frac{2}{3} \times 18$$

$$= 2 \times 6$$

$$= 12$$

(ii) 27

$$= \frac{2}{3} \times 27$$

$$= 2 \times 9$$

$$= 18$$

(c) $\frac{3}{4}$ of (i) 16 (ii) 36

Solution:-

(i) 16

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



(c) $\frac{3}{4}$ of (i) 16 (ii) 36

Solution:-

(i) 16

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

$$= 3 \times 4$$

$$= 12$$

(ii) 36

$$= \frac{3}{4} \times 36$$

$$= 3 \times 9$$

$$= 27$$

(d) $\frac{4}{5}$ of (i) 20 (ii) 35

Solution:-

(i) 20

$$= \frac{4}{5} \times 20$$



(d) $\frac{4}{5}$ of (i) 20 (ii) 35

Solution:-

(i) 20

$$= \frac{4}{5} \times 20$$

$$= 4 \times 4$$

$$= 16$$

(ii) 35

$$= \frac{4}{5} \times 35$$

$$= 4 \times 7$$

$$= 28$$

6. Multiply and express as a mixed fraction:

$$\text{(a) } 3 \times \frac{1}{5}$$

Solution:-

6. Multiply and express as a mixed fraction:

(a) $3 \times 1\frac{1}{5}$

Solution:-

First convert the given mixed fraction into improper fraction.

$$= 1\frac{1}{5} = \frac{26}{5}$$

$$= 3 \times (26/5)$$

$$= 78/5$$

$$= 15\frac{3}{5}$$

(b) $5 \times 6\frac{3}{4}$

Solution:-

(b) $5 \times 6 \frac{3}{4}$

Solution:-

First convert the given mixed fraction into improper fraction.

$$= 6 \frac{3}{4} = \frac{27}{4}$$

$$= 5 \times \left(\frac{27}{4}\right)$$

$$= \frac{135}{4}$$

$$= 33 \frac{3}{4}$$

(c) $7 \times 2 \frac{1}{4}$

Solution:-

First convert the given mixed fraction into improper fraction.

$$= 2 \frac{1}{4} = \frac{9}{4}$$

$$= 7 \times \left(\frac{9}{4}\right)$$

$$= \frac{63}{4}$$



$$(d) 4 \times 6\frac{1}{3}$$

Solution:-

First convert the given mixed fraction into improper fraction.

$$= 6\frac{1}{3} = \frac{19}{3}$$

$$= 4 \times (19/3)$$

$$= 76/3$$

$$= 25\frac{1}{3}$$

$$(e) 3\frac{1}{4} \times 6$$

Solution:-

First convert the given mixed fraction into

(e) $3 \frac{1}{4} \times 6$

Solution:-

First convert the given mixed fraction into improper fraction.

$$= 3 \frac{1}{4} = \frac{13}{4}$$

$$= \left(\frac{13}{4}\right) \times 6$$

$$= \left(\frac{13}{2}\right) \times 3$$

$$= \frac{39}{2}$$

$$= 19 \frac{1}{2}$$

(f) $2 \frac{3}{5} \times 8$

Solution:-

First convert the given mixed fraction into improper fraction.

$$= \frac{2}{3 \frac{3}{5}} = \frac{17}{5}$$

$$= 39/2$$

$$= 19 \frac{1}{2}$$

$$(f) \quad 2 \times 8 \\ 3 \frac{\quad}{5}$$

Solution:-

First convert the given mixed fraction into improper fraction.

$$= \quad 2 \quad 17 \\ 3 \frac{\quad}{5} = \frac{\quad}{5}$$

$$= (17/5) \times 8$$

$$= 136/5$$

$$= \quad 1 \\ 27 \frac{\quad}{5}$$

