- (b) By dividing the top line and bottom line of each fraction by 4, simplify each one:
- - (iii) 상
- (iv) 20 24
- **€** 3/28

(vi) 26/15

(c) By dividing the top line and bottom line of each fraction by 5, simplify each one;

(iii) 888 848

(iv) 35 50

S 818

(vi)

(a) $\frac{9}{12} \div 3$

00

色 29/5 by a number to simplify the fraction :-

For each of the following fractions, divide the numerator and the denominator

3

21

<u>a</u>

2/8

<u>e</u>

3/2

9 15/9

 \mathfrak{E}

35

 Ξ

35/7

 Ξ

36

9

5|8

ω

 \ni 32

 Ξ

2/8

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16

9

56

3

36

- E 75
- Ξ
- (3) 553 3510
 - 3
- 1000 105

 \equiv

Fractions of a quantity

To find $\frac{1}{5}$ of 20, you simply divide 20 by 5 To find $\frac{1}{4}$ of 12, you simply divide 12 by 4

ü

 $\frac{1}{4}$ of 12 = (12 ÷ 4) = 3

- To find $\frac{1}{10}$ of 90, you simply divide 90 by 10
- ü ü $\frac{1}{10}$ of 90 = (90 ÷ 10) = 9 $\frac{1}{5}$ of 20 = (20 ÷ 5) = 4

Exercise 2 Find :-

- <u>a</u>
 - <u>o</u> $\frac{1}{2}$ of 22
- 5 of 50
- 9 9 f of 49

Ņ

Find :-

<u>a</u>

 $\frac{1}{3}$ of 156

9

 $\frac{1}{4}$ of 368

9

 $\frac{1}{6}$ of 1920

e

† of 1680

(9)

is of 4500

 Ξ

ii of 1221

 Ξ

항 of 690

- a of 160 €

- - (e) 9 $\frac{1}{4}$ of 16

<u>O</u>

 $\frac{1}{3}$ of 18

- Ξ ib of 90
- iö of 700

 Ξ 3

₂₀ of 60

Ģ

[±]/₆ of 120

- $\overline{\mathcal{E}}$
- ‡ of 52

 \ni

ż of 200

- <u>O</u> \frac{1}{5} of 315
- 3 20 of 820



- To find $\frac{3}{4}$ of a number (like 24), you do it using 2 steps.
- Step 1:-Find $\frac{1}{4}$ of 24 first (÷ 4)
- Step 2 :-Now find 3 of 24 by (x 3)
- ü ü $\frac{1}{4}$ of 24 = 24 ÷ 4 = 6 $\frac{3}{4}$ of 24 = $6 \times 3 = 18$
- Set the working down as follows:-
- $\frac{3}{4}$ of 24 => (24÷4) => 6×3 = 18
- $\frac{2}{3}$ of 21 => (21÷3) => $7 \times 2 = 14$
- $\frac{5}{8}$ of 16 => $(16 \div 8)$ => $2 \times 5 = 10$

=> then "multiply by the numerator" (5) => "divide by the denominator" (6) To multiply by a fraction like

- Without using a calculator do the following:-
- <u>e</u> $\frac{2}{3}$ of 18 = (18 ÷ 3) => 6 × 2 = ...
- <u>C</u> ₹ of 15
 - 5 of 30 = (30 ÷ ...) => ... × 3 = ... <u>@</u>

3 of 32

<u>@</u>

5 of 25

9

 \mathfrak{E} 5 of 24

 Ξ

4 of 35

=

100 of 300

9 $\frac{7}{10}$ of 60

 Ξ

5 of 27

- 9 8 of 32
- E 16 of 30
- B Ξ € of 160 10 of 60

- 4 Do the following :-
- <u>e</u> $\frac{4}{5}$ of 120 = (120÷5) => 24 × 4 = ...
- <u></u> 축 of 120

3

€ of 85

9

 Ξ

§ of 630

9

豆

 $\frac{3}{8}$ of 400 = (400÷?) => ? × 3 = ??

- <u>a</u> $\frac{2}{3}$ of 360
- <u>e</u> $\frac{9}{10}$ of 1300 ਤੂੰ of 256
- $\frac{6}{9}$ of 360 Ξ
- E $\frac{7}{8}$ of 640
- 5 of 174
- There are 440 adults in St David's congregation. $\frac{5}{8}$ of them are women. How many women are there? (ii) How many men?
- 豆 There are 365 days in a year. It rained on $\frac{4}{5}$ of them. On how many days did it rain? (ii) How many dry days were there?
- <u>ල</u> A turtle laid 132 eggs. $\frac{5}{6}$ of them were eaten by birds. (i) How many eggs were eaten? (ii) How many survived?