

EXERCISE 16(A)

1. Express each of the following statements in the percentage form:

- (i) 13 out of 20
- (ii) 21 eggs out of 30 are good

Solution:

(i) 13 out of 20

The statement in the percentage form is shown below

$$13/20 \times 100 = 13/2 \times 10$$

$$=13\times5$$

(ii) The statement in the percentage form is shown below

$$21/30 \times 100 = 21/3 \times 10$$

$$=7\times10$$

$$=70\%$$

Hence, 70% of eggs are good

2. Express the following fractions as percent:

- (i) 3 / 200
- (ii) 5 / 6
- (iii) 65 / 80
- (iv) 2/3

Solution:

(i) 3 / 200

Fractions as percentage is shown below

$$3/200 \times 100 = 3/2$$

We get,

Fractions as percentage is shown below

$$5/6 \times 100 = 500/6$$

On calculating, we get

$$= 83\frac{1}{3}\%$$

Fractions as percentage is shown below

$$65 / 80 \times 100 = 65 / 8 \times 10$$

$$= 325 / 4$$

On further calculation, we get

$$= 81\frac{1}{4}$$
%

(iv)
$$2/3$$

Fractions as percentage is shown below

$$2/3 \times 100 = 200/3$$

On calculating, we get

$$= \frac{66\frac{2}{3}}{3} \%$$

3. Express as percent:

- (i) 0.10
- (ii) 0.02
- (iii) 0.7
- (iv) 0.15
- (v) 0.032

Solution:

(i) 0.10

The given decimal expressed in percent is as follows

$$0.10 \times 100 = 10 / 100 \times 100$$

We get,

- = 10%
- (ii) 0.02

The given decimal expressed in percent is as follows

$$0.02 \times 100 = 2 / 100 \times 100$$

We get,

- = 2%
- (iii) 0.7

The given decimal expressed in percent is as follows

$$0.7 \times 100 = 7 / 10 \times 100$$

We get,

- = 70%
- (iv) 0.15

The given decimal expressed in percent is as follows

$$0.15 \times 100 = 15 / 100 \times 100$$

We get,

- = 15%
- (v) 0.032

The given decimal expressed in percent is as follows

$$0.032 \times 100 = 32 / 1000 \times 100$$

We get, = 3.2%

4. Convert into fractions in their lowest terms:

- (i) 8%
- (ii) 20%
- (iii) 85%
- (iv) 250%
- (v) 12 ½ %

Solution:

(i) 8%

Fraction in its lowest form is shown below

$$8/100 = 4/50$$

We get,

- = 2 / 25
- (ii) 20%

Fraction in its lowest form is shown below

We get,

- = 1 / 5
- (iii) 85%

Fraction in its lowest form is shown below

(iv) 250%

Fraction in its lowest form is shown below

On further calculation, we get

$$= 5 / 2$$

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

Fraction in its lowest form is shown below

$$(25 / 2) \% = 25 / 200$$

On further calculation, we get

- = 5 / 40
- = 1 / 8



5. Express as decimal fractions:

(i) 25%

(ii) 108%

(iii) 95%

(iv) 4.5%

(v) 29.2%

Solution:

(i) 25%

The statement expressed as decimal fraction is given below

25 / 100

= 0.25

Hence, the decimal fraction of 25% is 0.25

(ii) 108%

The statement expressed as decimal fraction is given below 108 / 100

= 1.08

Hence, the decimal fraction of 108% is 1.08

(iii) 95%

The statement expressed as decimal fraction is given below

95 / 100

= 0.95

Hence, the decimal fraction of 95% is 0.95

(iv) 4.5%

The statement expressed as decimal fraction is given below

4.5 / 100 = 45 / 1000

We get,

= 0.045

Hence, the decimal fraction of 4.5% is 0.045

(v) 29.2%

The statement expressed as decimal fraction is given below

29.2 / 100 = 292 / 1000

We get,

=0.292

6. Express each of the following natural numbers as percent:

(i) 7

(ii) 2

(iii) 19.5

(iv) 5.37



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Solution:

(i) 7

The given natural number expressed in percent is shown below

 7×100

= 700%

(ii) 2

The given natural number expressed in percent is shown below

 2×100

= 200%

(iii) 19.5

The given natural number expressed in percent is shown below

 19.5×100

= 1950%

(iv) 5.37

The given natural number expressed in percent is shown below

 5.37×100

= 537%