

RD Sharma Solutions for Class 8 Maths Chapter 12 – Percentage

# **EXERCISE 12.1**

# **P&GE NO: 12.2**

1. Write each of the following as percentage.
(i) 7/25
(ii) 14/625
(iii) <b>5/8</b>
(iv) <b>0.8</b>
(v) <b>0.005</b>
(vi) 3:25
(vii) 11: 80
(viii) 111: 125
(ix) 13: 75
(x) 15: 16
(xi) 0.18
(xii) 7/125
Solution:
(i) 7/25
To change any number to percentage we have to multiply t

Т that number by 100, i.e.,  $7/25 \times 100 = 28\%$ 

#### (ii) 14/625

To change any number to percentage we have to multiply that number by 100, i.e.,  $14/625 \times 100 = 56/25 = 2.24\%$ 

#### (iii) 5/8

To change any number to percentage we have to multiply that number by 100, i.e.,  $5/8 \times 100 = 125/2 = 62.5\%$ 

#### (iv) 0.8

To change any number to percentage we have to multiply that number by 100, i.e., 0.8 can be written as 8/10so,  $8/10 \times 100 = 80\%$ 

#### (v) 0.005

To change any number to percentage we have to multiply that number by 100, i.e., 0.005 can be written as 5/1000 so,  $5/1000 \times 100 = 5/10 = 0.5\%$ 

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## (vi) 3:25

To change any number to percentage we have to multiply that number by 100, i.e.,  $3/25 \times 100 = 3 \times 4 = 12\%$ 

### (vii) 11 : 80

To change any number to percentage we have to multiply that number by 100, i.e.,  $11/80 \times 100 = 55/4 = 13.75\%$ 

#### (viii) 111 : 125

To change any number to percentage we have to multiply that number by 100, i.e.,  $111/125 \times 100 = 444/5 = 88.8\%$ 

### (ix) 13:75

To change any number to percentage we have to multiply that number by 100, i.e.,  $13/75 \times 100 = 52/3 = 17.3\%$ 

#### (x) 15:16

To change any number to percentage we have to multiply that number by 100, i.e.,  $15/16 \times 100 = 375/4 = 93.75\%$ 

#### (xi) 0.18

To change any number to percentage we have to multiply that number by 100, i.e., 0.18 can be written as 18/100 so,  $18/100 \times 100 = 18\%$ 

#### (xii) 7/125

To change any number to percentage we have to multiply that number by 100, i.e.,  $7/125 \times 100 = 28/5 = 5.6\%$ 

#### 2. Convert the following percentages to fractions and ratios.

(i) 25%
(ii) 2.5%
(iii) 0.25%
(iv) 0.3%
(v) 125%
Solution:
(i) 25%
To convert percentage to fractions we have to divide by 100, i.e., 25/100 = 1/4 or 1:4

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## (ii) 2.5%

To convert percentage to fractions we have to divide by 100, i.e., 2.5% can be written as 25/10 so, (25/10)/100 = 25/1000 = 1/40 or 1:40

## (iii) 0.25%

To convert percentage to fractions we have to divide by 100, i.e., 0.25% can be written as 25/100 so, (25/100)/100 = 25/10000 = 1/400 or 1:400

## (iv) 0.3%

To convert percentage to fractions we have to divide by 100, i.e., 0.3% can be written as 3/10 so, (3/10)/100 = 3/1000 or 3:1000

### (v) 125%

To convert percentage to fractions we have to divide by 100, i.e., 125/100 = 5/4 or 5:4

### 3. Express the following as decimal fractions.

(i) 27%
(ii) 6.3%
(iii) 32%
(iv) 0.25%
(v) 7.5%

(vi) 1/8%

### Solution:

(i) 27%

To convert percentage to decimal fractions we have to divide by 100, i.e., 27% = 27/100 = 0.27

### (ii) 6.3%

Here 6.3 can be written as 63/10

To convert percentage to decimal fractions we have to divide by 100, i.e.,  $6.3\% = 63/(10 \times 100) = 63/1000 = 0.063$ 

## (iii) 32%

To convert percentage to decimal fractions we have to divide by 100, i.e., 32% = 32/100 = 0.32

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### (iv) 0.25%

Here 0.25 can be written as 25/100To convert percentage to decimal fractions we have to divide by 100, i.e.,  $0.25\% = 25/(100 \times 100) = 25/10000 = 0.0025$ 

## (v) 7.5%

Here 7.5 can be written as 75/10To convert percentage to decimal fractions we have to divide by 100, i.e.,  $7.5\% = 75/(10 \times 100) = 75/1000 = 0.075$ 

#### (vi) 1/8%

To convert percentage to decimal fractions we have to divide by 100, i.e.,  $1/8\% = 1/(8 \times 100) = 1/800 = 0.00125$ 

