



Exercise 10A

Q1

Answer :

We have the following:

$$(i) \frac{47}{100} = \left(\frac{47}{100} \times 100 \right) \% = 47\%$$

$$(ii) \frac{9}{20} = \left(\frac{9}{20} \times 100 \right) \% = (9 \times 5) \% = 45\%$$

$$(iii) \frac{3}{8} = \left(\frac{3}{8} \times 100 \right) \% = \left(\frac{3 \times 25}{2} \right) \% = \left(\frac{75}{2} \right) \% = 37 \frac{1}{2} \%$$

$$(iv) \frac{8}{125} = \left(\frac{8}{125} \times 100 \right) \% = \left(\frac{8 \times 4}{5} \right) \% = \left(\frac{32}{5} \right) \% = 6.4\%$$

$$(v) \frac{19}{500} = \left(\frac{19}{500} \times 100 \right) \% = \left(\frac{19}{5} \right) \% = 3.8\%$$

$$(vi) \frac{4}{15} = \left(\frac{4}{15} \times 100 \right) \% = \left(\frac{4 \times 20}{3} \right) \% = \left(\frac{80}{3} \right) \% = 26 \frac{2}{3} \%$$

$$(vii) \frac{2}{3} = \left(\frac{2}{3} \times 100 \right) \% = \left(\frac{200}{3} \right) \% = 66 \frac{2}{3} \%$$

$$(viii) 1 \frac{3}{5} = \frac{8}{5} = \left(\frac{8}{5} \times 100 \right) \% = (8 \times 20) \% = 160\%$$

Q2

Answer :

We have the following:

$$(i) 32\% = \left(\frac{32}{100}\right) = \frac{8}{25}$$

$$(ii) 6\frac{1}{4}\% = \left(\frac{25}{4}\right)\% = \left(\frac{25}{4} \times \frac{1}{100}\right) = \frac{1}{16}$$

$$(iii) 26\frac{2}{3}\% = \left(\frac{80}{3}\right)\% = \left(\frac{80}{3} \times \frac{1}{100}\right) = \left(\frac{4 \times 1}{3 \times 5}\right) = \frac{4}{15}$$

$$(iv) 120\% = \left(\frac{120}{100}\right) = \frac{6}{5} = 1\frac{1}{5}$$

$$(v) 6.25\% = \left(\frac{6.25}{100}\right) = \left(\frac{625}{100 \times 100}\right) = \left(\frac{25}{400}\right) = \frac{1}{16}$$

$$(vi) 0.8\% = \left(\frac{0.8}{100}\right) = \left(\frac{8}{10 \times 100}\right) = \left(\frac{8}{1000}\right) = \frac{1}{125}$$

$$(vii) 0.06\% = \left(\frac{0.06}{100}\right) = \left(\frac{6}{100 \times 100}\right) = \left(\frac{6}{10000}\right) = \frac{3}{5000}$$

$$(viii) 22.75\% = \left(\frac{22.75}{100}\right) = \left(\frac{2275}{100 \times 100}\right) = \frac{91}{400}$$

Q3

Answer :

We have:

$$(i) 43\% = \frac{43}{100} = 43 : 100$$

$$(ii) 36\% = \frac{36}{100} = \frac{9}{25} = 9 : 25$$

$$(iii) 7.5\% = \left(\frac{7.5}{100}\right) = \left(\frac{75}{10 \times 100}\right) = \frac{3}{40} = 3 : 40$$

$$(iv) 125\% = \frac{125}{100} = \frac{5}{4} = 5 : 4$$

Q4

Answer :

We have the following:

$$(i) 37 : 100 = \frac{37}{100} = \left(\frac{37}{100} \times 100\right)\% = 37\%$$

$$(ii) 16 : 25 = \frac{16}{25} = \left(\frac{16}{25} \times 100\right)\% = (16 \times 4)\% = 64\%$$

$$(iii) 3 : 5 = \frac{3}{5} = \left(\frac{3}{5} \times 100\right)\% = (3 \times 20)\% = 60\%$$

$$(iv) 5 : 4 = \frac{5}{4} = \left(\frac{5}{4} \times 100\right)\% = (5 \times 25)\% = 125\%$$

Q5

Answer :

We have the following:

$$(i) 45\% = \left(\frac{45}{100}\right) = 0.45$$

$$(ii) 127\% = \left(\frac{127}{100}\right) = 1.27$$

$$(iii) 3.6\% = \left(\frac{3.6}{100}\right) = \left(\frac{36}{10 \times 100}\right) = \frac{36}{1000} = 0.036$$

$$(iv) 0.23\% = \left(\frac{0.23}{100}\right) = \left(\frac{23}{100 \times 100}\right) = \frac{23}{10000} = 0.0023$$

Q6

Answer :

We have:

$$(i) 0.6 = (0.6 \times 100)\% = 60\%$$

$$(ii) 0.42 = (0.42 \times 100)\% = 42\%$$

$$(iii) 0.07 = (0.07 \times 100)\% = 7\%$$

$$(iv) 0.005 = (0.005 \times 100)\% = 0.5\%$$

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