Solutions for Class 7 Maths Chapter 2 भिन्न एवं दशमलव Ex 2.5

प्रश्न 1.
ज्ञात कीजिए:
हल:

(i) $0.4 \div 2 = \dfrac{4}{10} \div 2$

$\qquad = \dfrac{4}{10} \times \dfrac{1}{2} = \dfrac{2}{10} = 0.2$

(ii) $0.35 \div 5 = \dfrac{35}{100} \div 5$

$\qquad = \dfrac{35}{100} \times \dfrac{1}{5} = \dfrac{7}{100} = 0.07$

(iii) $2.48 \div 4 = \dfrac{248}{100} \div 4$

$\qquad = \dfrac{248}{100} \times \dfrac{1}{4} = \dfrac{62}{100} = 0.62$

(iv) $65.4 \div 6 = \dfrac{654}{10} \div 6$

$\qquad = \dfrac{654}{10} \times \dfrac{1}{6} = \dfrac{109}{10} = 10.9$

(v) $651.2 \div 4 = \dfrac{6512}{10} \div 4$

$\qquad = \dfrac{6512}{10} \times \dfrac{1}{4} = \dfrac{1628}{10} = 162.8$

(vi) $14.49 \div 7 = \dfrac{1449}{100} \div 7$

$\qquad = \dfrac{1449}{100} \times \dfrac{1}{7} = \dfrac{207}{100} = 2.07$

(vii) $3.96 \div 4 = \dfrac{396}{100} \div 4$

$\qquad = \dfrac{396}{100} \times \dfrac{1}{4} = \dfrac{99}{100} = 0.99$

(viii) $0.80 \div 5 = \dfrac{80}{100} \div 5$

$\qquad = \dfrac{80}{100} \times \dfrac{1}{5} = \dfrac{16}{100} = 0.16$

प्रश्न 2.
ज्ञात कीजिए:
हल:
(i) $4.8 \div 10 = 0.48$
(ii) $52.5 \div 10 = 5.25$

(iii) 0.7 ÷ 10 = 0.07
(iv) 33.1 ÷ 10 = 3.31
(v) 272.23 +÷ 10 = 27.223
(vi) 0.56 ÷ 10 = 0.056
(vii) 3.97 ÷ 10 = 0.397

प्रश्न 3.
ज्ञात कीजिए:
हल:
(i) 2.7 ÷ 100 = 0.027
(ii) 0.3 ÷ 100 = 0.003
(iii) 0.78 ÷ 100 = 0.0078
(iv) 432.6 ÷ 100 = 4.326
(v) 23.6 ÷ 100 = 0.236
(vi) 98.53 ÷ 100 = 0.9853

प्रश्न 4.
ज्ञात कीजिए:
हल:
(i) 7.9 ÷ 1000 = 0.0079
(ii) 26.3 ÷ 1000 = 0.0263
(iii) 38.53 ÷ 1000 = 0.03853
(iv) 128.9 ÷ 1000 = 0.1289
(v) 0.5 ÷ 1000 = 0.0005

प्रश्न 5.
ज्ञात कीजिए:
हल:

(i) $7 \div 3.5 = 7 \div \dfrac{35}{10}$

$\qquad = 7 \times \dfrac{10}{35} = \dfrac{70}{35} = 2$

(ii) $36 \div 0.2 = 36 \div \dfrac{2}{10}$

$\qquad = 36 \times \dfrac{10}{2} = 18 \times 10 = 180$

(iii) $3.25 \div 0.5 = \dfrac{325}{100} \div \dfrac{5}{10}$

$\qquad = \dfrac{325}{100} \times \dfrac{10}{5} = \dfrac{65}{10} = 6.5$

(iv) $30.94 \div 0.7 = \dfrac{3094}{100} \div \dfrac{7}{10}$

$\qquad = \dfrac{3094}{100} \times \dfrac{10}{7} = \dfrac{442}{10} = 44.2$

(v) $0.5 \div 0.25 = \dfrac{5}{10} \div \dfrac{25}{100}$

$\qquad = \dfrac{5}{10} \times \dfrac{100}{25} = \dfrac{10}{5} = 2$

(vi) $7.75 \div 0.25 = \dfrac{775}{100} \div \dfrac{25}{100}$

$\qquad = \dfrac{775}{100} \times \dfrac{100}{25} = 31$

(vii) $76.5 \div 0.15 = \dfrac{765}{10} \div \dfrac{15}{100}$

$\qquad = \dfrac{765}{10} \times \dfrac{100}{15} = 51 \times 10 = 510$

(viii) $37.8 \div 1.4 = \dfrac{378}{10} \div \dfrac{14}{10}$

$\qquad = \dfrac{378}{10} \times \dfrac{10}{14} = \dfrac{378}{14} = 27$

(ix) $2.73 \div 1.3 = \dfrac{273}{100} \div \dfrac{13}{10}$

$\qquad = \dfrac{273}{100} \times \dfrac{10}{13} = \dfrac{21}{10} = 2.1$

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प्रश्न 6.
एक गाड़ी 2.4 लीटर पैट्रोल में 43.2 km की दूरी तय करती है। यह गाड़ी एक लीटर पैट्रोल में कितनी दूरी तय करेगी?
हल:
गाड़ी 2.4 लीटर पैट्रोल में दूरी तय करती है = 43.2 km

∴ 1 लीटर पैट्रोल में दूरी तय करेगी

= (43.2 ÷ 2.4) km

= (43210÷2410) $\left(\dfrac{432}{10} \div \dfrac{24}{10}\right)$ km

= (43210×1024) $\left(\dfrac{432}{10} \times \dfrac{10}{24}\right)$ km

= $43224\dfrac{432}{24}$ km

= 18 km