

गणित

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(अध्याय - 2) (भिन्न एवं दशमलव)

(कक्षा - 7)

प्रश्नावली 2.7

प्रश्न 1:

ज्ञात कीजिए:

(i) $0.4 \div 2$

(ii) $0.35 \div 5$

(iii) $2.48 \div 4$

(iv) $65.4 \div 6$

(v) $651.2 \div 4$

(v) $14.49 \div 7$

(vii) $3.96 \div 4$

(viii) $0.80 \div 5$

उत्तर 1:

(i) $0.4 \div 2 = \frac{4}{10} \times \frac{1}{2} = \frac{2}{10} = 0.2$

(ii) $0.35 \div 5 = \frac{35}{100} \times \frac{1}{5} = \frac{7}{100} = 0.07$

(iii) $2.48 \div 4 = \frac{248}{100} \times \frac{1}{4} = \frac{62}{100} = 0.62$

(iv) $65.4 \div 6 = \frac{654}{10} \times \frac{1}{6} = \frac{109}{10} = 10.9$

(v) $651.2 \div 4 = \frac{6512}{10} \times \frac{1}{4} = \frac{1628}{10} = 162.8$

(vi) $14.49 \div 7 = \frac{1449}{100} \times \frac{1}{7} = \frac{207}{100} = 2.07$

(vii) $3.96 \div 4 = \frac{396}{100} \times \frac{1}{4} = \frac{99}{100} = 0.99$

(viii) $0.80 \div 5 = \frac{80}{100} \times \frac{1}{5} = \frac{16}{100} = 0.16$

प्रश्न 2:

ज्ञात कीजिए:

(i) $4.8 \div 10$

(ii) $52.5 \div 10$

(iii) $0.7 \div 10$

(iv) $33.1 \div 10$

(v) $272.23 \div 10$

(vi) $0.56 \div 10$

(vii) $3.97 \div 10$

उत्तर 2:

(i) $4.8 \div 10 = \frac{4.8}{10} = 0.48$

(ii) $52.5 \div 10 = \frac{52.5}{10} = 5.25$

(iii) $0.7 \div 10 = \frac{0.7}{10} = 0.07$

(iv) $33.1 \div 10 = \frac{33.1}{10} = 3.31$

(v) $272.23 \div 10 = \frac{272.23}{10} = 27.223$

(vi) $0.56 \div 10 = \frac{0.56}{10} = 0.056$

(vii) $3.97 \div 10 = \frac{3.97}{10} = 0.397$

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प्रश्न 3:

ज्ञात कीजिए:

- | | | | | | |
|------|------------------|------|-----------------|-------|------------------|
| (i) | $2.7 \div 100$ | (ii) | $0.3 \div 100$ | (iii) | $0.78 \div 100$ |
| (iv) | $432.6 \div 100$ | (v) | $23.6 \div 100$ | (vi) | $98.53 \div 100$ |

उत्तर 3:

- (i) $2.7 \div 100 = \frac{27}{10} \times \frac{1}{100} = \frac{27}{1000} = 0.027$
- (ii) $0.3 \div 100 = \frac{3}{10} \times \frac{1}{100} = \frac{3}{1000} = 0.003$
- (iii) $0.78 \div 100 = \frac{78}{100} \times \frac{1}{100} = \frac{78}{10000} = 0.0078$
- (iv) $432.6 \div 100 = \frac{4326}{10} \times \frac{1}{100} = \frac{4326}{1000} = 4.326$
- (v) $23.6 \div 100 = \frac{236}{10} \times \frac{1}{100} = \frac{236}{1000} = 0.236$
- (vi) $98.53 \div 100 = \frac{9853}{100} \times \frac{1}{100} = \frac{9853}{10000} = 0.9853$

प्रश्न 4:

ज्ञात कीजिए:

- | | | | | | |
|------|-------------------|------|------------------|-------|-------------------|
| (i) | $7.9 \div 1000$ | (ii) | $26.3 \div 1000$ | (iii) | $38.53 \div 1000$ |
| (iv) | $128.9 \div 1000$ | (v) | $0.5 \div 1000$ | | |

उत्तर 4:

- (i) $7.9 \div 1000 = \frac{79}{10} \times \frac{1}{1000} = \frac{79}{10000} = 0.0079$
- (ii) $26.3 \div 1000 = \frac{263}{10} \times \frac{1}{1000} = \frac{263}{10000} = 0.0263$
- (iii) $38.53 \div 1000 = \frac{3853}{100} \times \frac{1}{1000} = \frac{3853}{100000} = 0.03853$
- (iv) $128.9 \div 1000 = \frac{1289}{10} \times \frac{1}{1000} = \frac{1289}{10000} = 0.1289$
- (v) $0.5 \div 1000 = \frac{5}{10} \times \frac{1}{1000} = \frac{5}{10000} = 0.0005$

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प्रश्न 5:

ज्ञात कीजिए:

- | | | | | | |
|-------|------------------|--------|-----------------|-------|------------------|
| (i) | $7 \div 3.5$ | (ii) | $36 \div 0.2$ | (iii) | $3.25 \div 0.5$ |
| (iv) | $30.94 \div 0.7$ | (v) | $0.5 \div 0.25$ | (vi) | $7.75 \div 0.25$ |
| (vii) | $76.5 \div 0.15$ | (viii) | $37.8 \div 1.4$ | (ix) | $2.73 \div 1.3$ |

उत्तर 5:

- (i) $7 \div 3.5 = 7 \div \frac{35}{10} = 7 \times \frac{10}{35} = \frac{10}{5} = 2$
- (ii) $36 \div 0.2 = 36 \div \frac{2}{10} = 36 \times \frac{10}{2} = 18 \times 10 = 180$
- (iii) $3.25 \div 0.5 = \frac{325}{100} \div \frac{5}{10} = \frac{325}{100} \times \frac{10}{5} = \frac{65}{10} = 6.5$
- (iv) $30.94 \div 0.7 = \frac{3094}{100} \div \frac{7}{10} = \frac{3094}{100} \times \frac{10}{7} = \frac{442}{10} = 44.2$
- (v) $0.5 \div 0.25 = \frac{5}{10} \div \frac{25}{100} = \frac{5}{10} \times \frac{100}{25} = \frac{10}{5} = 2$
- (vi) $7.75 \div 0.25 = \frac{775}{100} \div \frac{25}{100} = \frac{775}{100} \times \frac{100}{25} = 31$
- (vii) $76.5 \div 0.15 = \frac{765}{10} \div \frac{15}{100} = \frac{765}{10} \times \frac{100}{15} = 51 \times 10 = 510$
- (viii) $37.8 \div 1.4 = \frac{378}{10} \div \frac{14}{10} = \frac{378}{10} \times \frac{10}{14} = 27$
- (ix) $2.73 \div 1.3 = \frac{273}{100} \div \frac{13}{10} = \frac{273}{100} \times \frac{10}{13} = \frac{21}{10} = 2.1$

प्रश्न 6:

एक गाड़ी 2.4 लीटर पेट्रोल में 43.2 km की दूरी तय करती है। यह गाड़ी एक लीटर पेट्रोल में कितनी दूरी तय करेगी?

उत्तर 6:

$$\begin{aligned}\therefore 2.4 \text{ लीटर में तय की गई दूरी} &= 43.2 \text{ km} \\ \therefore 1 \text{ लीटर में तय की गई दूरी} &= 43.2 \div 2.4 \\ &= \frac{432}{10} \div \frac{24}{10} = \frac{432}{10} \times \frac{10}{24} \\ &= 18 \text{ km}\end{aligned}$$

अतः, यह गाड़ी एक लीटर में 18 km की दूरी तय करेगी।