

Estimating Answer to Calculations : Answers

$$\begin{aligned} 1) \quad & 702 \times 49 \\ & \approx 700 \times 50 \\ & \approx 35\,000 \end{aligned}$$

$$\begin{aligned} 2) \quad & 3.9 \times 62 \\ & \approx 4 \times 60 \\ & \approx 240 \end{aligned}$$

$$\begin{aligned} 3) \quad & 0.41 \times 897 \\ & \approx 0.4 \times 900 \\ & \approx \overset{\times 10}{4} \times \overset{\div 10}{90} \\ & \approx 360 \end{aligned}$$

$$\begin{aligned} 4) \quad & \sqrt{35} \times 0.69 \\ & \approx \sqrt{36} \times 0.7 \\ & \approx 6 \times 0.7 & 6 \times 7 = 42 \\ & \approx 4.2 & \text{1 decimal} \end{aligned}$$

$$\begin{aligned} 5) \quad & \frac{812}{42} \\ & \approx \frac{800}{40} \quad \begin{matrix} \div 10 \\ \div 10 \end{matrix} \\ & \approx \frac{80}{4} \\ & \approx 20 \end{aligned}$$

$$\begin{aligned} 6) \quad & \frac{607 \times 38}{19.6} \\ & \approx \frac{600 \times 40}{20} \\ & \approx \frac{24\,000}{20} \quad \begin{matrix} \div 10 \\ \div 10 \end{matrix} \\ & \approx \frac{2400}{2} \\ & \approx 1200 \end{aligned}$$

$$\begin{aligned} 7) \quad & \frac{729}{0.41} \\ & \approx \frac{700}{0.4} \quad \begin{matrix} \times 10 \\ \times 10 \end{matrix} \\ & \approx \frac{7000}{4} \quad \begin{matrix} \div 2 \\ \div 2 \end{matrix} \\ & \approx \frac{3500}{2} \quad \begin{matrix} \div 2 \\ \div 2 \end{matrix} \\ & \approx 1750 \end{aligned}$$

$$\begin{aligned} 8) \quad & \frac{3.2^2 \times 395}{0.032} \\ & \approx \frac{3^2 \times 400}{0.03} \\ & \approx \frac{9 \times 400}{0.03} \\ & \approx \frac{3600}{0.03} \quad \begin{matrix} \times 100 \\ \times 100 \end{matrix} \\ & \approx \frac{360\,000}{3} \\ & \approx 120\,000 \end{aligned}$$

$$9) \quad \frac{58 \times 732.3}{0.31 \times 42}$$

$$\approx \frac{60 \times 700}{0.3 \times 40}$$

$\uparrow \quad \uparrow$
 $\times 10 \quad \div 10$

$$\approx \frac{42000}{3 \times 4}$$

$$\approx \frac{42000}{12} \quad \div 2$$

$\div 2$

$$\approx \frac{21000}{6} \quad \div 3$$

$\div 3$

$$\approx \frac{7000}{2}$$

$$\approx 3500$$