

Bahagi Pecahan

- Pecahan wajar dengan nombor bulat.

Contoh: $\frac{2}{5} \div 3 = \frac{2}{15}$

Langkah pengiraan:

$$\begin{aligned} \frac{2}{5} \div 3 &= \frac{2}{5 \times 3} \\ &= \frac{2}{15} \end{aligned}$$

- Nombor bercampur dengan nombor bulat.

Contoh: $1\frac{1}{3} \div 2 = \frac{2}{3}$

Langkah pengiraan:

$$\begin{aligned} 1\frac{1}{3} \div 2 &= \frac{4}{3} \div 2 \\ &= \frac{4}{3 \times 2} = \frac{4}{6} \\ &= \frac{4 \div 2}{6 \div 2} = \frac{2}{3} \end{aligned}$$

- Pecahan wajar dengan pecahan wajar.

Contoh: $\frac{1}{2} \div \frac{5}{6} = \frac{3}{5}$

Langkah pengiraan:

$$\begin{aligned} \frac{1}{2} \div \frac{5}{6} &= \frac{1}{2} \times \frac{6}{5} \\ &= \frac{6 \div 2}{10 \div 2} = \frac{3}{5} \end{aligned}$$

- Nombor bercampur dengan pecahan wajar.

Contoh: $1\frac{2}{3} \div \frac{1}{6} = 10$

Langkah pengiraan:

$$\begin{aligned} 1\frac{2}{3} \div \frac{1}{6} &= \frac{5}{3} \div \frac{1}{6} \\ &= \frac{5}{3} \times \frac{6}{1} \\ &= \frac{30 \div 3}{3 \div 3} \\ &= \frac{10}{1} = 10 \end{aligned}$$

Operasi Perpuluhan

- o Darab perpuluhan

Contoh: $0.2 \times 1.5 = 0.3$

Langkah pengiraan:

$$\begin{aligned} 0.2 \times 1.5 &= \frac{2}{10} \times \frac{15}{10} \\ &= \frac{30}{10} \\ &= 0.3 \end{aligned}$$

- o Bahagi perpuluhan

Contoh: $4.2 \div 0.7 = 6$

Langkah pengiraan:

$$\begin{aligned} 4.2 \div 0.7 &= 42 \div 7 \\ &= 6 \end{aligned}$$

Tukar Perpuluhan kepada Peratus

- o Perpuluhan \rightarrow Peratus

Contoh: $2.5 = 250\%$

Langkah pengiraan:

$$\begin{aligned} 2 + 0.5 &= (2 \times 100) + (0.5 \times 100) \\ &= 200 + 50 \\ &= 250\% \end{aligned}$$

- o Tambah dan tolak peratus

Contoh: $25\% + 10\% = 35\%$

- o Nilai kuantiti dan nilai peratus

Contoh: 150% daripada 3.2 m panjang kain
= 4.8 m

Langkah pengiraan:

$$\begin{aligned} 150\% \times 3.2 \text{ m} &= \frac{150}{100} \times 3.2 \text{ m} \\ &= 1.5 \text{ m} \times 3.2 \text{ m} \\ &= 4.8 \text{ m} \end{aligned}$$

Operasi Bergabung

- o Tambah dan tolak

Contoh: $\frac{1}{5} \text{ kg} + 7 \text{ kg} - 0.84 \text{ kg}$
 $= 6.36 \text{ kg}$

Langkah pengiraan:

$$\begin{aligned} \frac{1}{5} \text{ kg} + 7 \text{ kg} - 0.84 \text{ kg} &= 0.2 \text{ kg} + 7 \text{ kg} - 0.84 \text{ kg} \\ &= 7.2 \text{ kg} - 0.84 \text{ kg} \\ &= 6.36 \text{ kg} \end{aligned}$$

- o Darab dan bahagi

Contoh: $8 \times 2\frac{1}{4} \text{ kg} \div 0.2 \text{ kg}$
 $= 90 \text{ kg}$

Langkah pengiraan:

$$\begin{aligned} 8 \times 2\frac{1}{4} \text{ kg} \div 0.2 \text{ kg} &= 18 \text{ kg} \div 0.2 \text{ kg} \\ &= 90 \text{ kg} \end{aligned}$$

- o Tambah dan darab

Contoh: $10.6 \text{ m} \times 2 + \frac{2}{5} \text{ m}$
 $= 21.6 \text{ m}$

Langkah pengiraan:

$$\begin{aligned} 10.6 \text{ m} \times 2 + \frac{2}{5} \text{ m} &= 21.2 \text{ m} + 0.4 \text{ m} \\ &= 21.6 \text{ m} \end{aligned}$$

- o Tolak dan darab

Contoh: $6\frac{1}{5} \text{ km} - 0.6 \text{ km} \times 5$
 $= 3.2 \text{ km}$

Langkah pengiraan:

$$\begin{aligned} 6\frac{1}{5} \text{ km} - 0.6 \text{ km} \times 5 &= 6.2 \text{ km} - (0.6 \text{ km} \times 5) \\ &= 6.2 \text{ km} - 3 \text{ km} \\ &= 3.2 \text{ km} \end{aligned}$$

- o Tambah dan bahagi

Contoh: $15\frac{1}{2} \text{ l} \div 5 + 8.04 \text{ l}$
 $= 11.14 \text{ l}$

Langkah pengiraan:

$$\begin{aligned} 15\frac{1}{2} \text{ l} \div 5 + 8.04 \text{ l} &= 15.5 \text{ l} \div 5 + 8.04 \text{ l} \\ &= 3.1 \text{ l} + 8.04 \text{ l} \\ &= 11.14 \text{ l} \end{aligned}$$

- o Tolak dan bahagi

Contoh: $24\frac{1}{2} \text{ km} - 6.2 \text{ km} \div 4$
 $= 22.95 \text{ km}$

Langkah pengiraan:

$$\begin{aligned} 24\frac{1}{2} \text{ km} - 6.2 \text{ km} \div 4 &= 24.5 \text{ km} - (6.2 \text{ km} \div 4) \\ &= 24.5 \text{ km} - 1.55 \text{ km} \\ &= 22.95 \text{ km} \end{aligned}$$