

NOTA RINGKAS

UNIT

2



PECAHAN, PERPULUHAN DAN PERATUS

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

- Darab perpuluhan

Contoh:

$$0.2 \times 1.5 = 0.3$$

- Bahagi perpuluhan

Contoh:

$$4.2 \div 0.7 = 6$$

Langkah pengiraan:

$$\begin{aligned} 0.2 \times 1.5 &= \frac{2}{10} \times \frac{15}{10} \\ &= \frac{30}{100} \\ &= 0.3 \end{aligned}$$

Langkah pengiraan:

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

Tukar Perpuluhan kepada Peratus

- Perpuluhan → Peratus

Contoh:

$$2.5 = 250\%$$

- Tambah dan tolak peratus

Contoh:

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

- Nilai kuantiti dan nilai peratus

Contoh:

$$150\% \text{ daripada } 3.2 \text{ m panjang kain} = 4.8 \text{ m}$$

Langkah pengiraan:

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

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

- Tambah dan tolak

Contoh:

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

- Darab dan bahagi

Contoh:

$$8 \times 2\frac{1}{4} \text{ kg} + 0.2 \text{ kg} \\ = 90 \text{ kg}$$

- Tambah dan darab

Contoh:

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

- Tolak dan darab

Contoh:

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

- Tambah dan bahagi

Contoh:

$$15\frac{1}{2} \ell \div 5 + 8.04 \ell \\ = 11.14 \ell$$

- Tolak dan bahagi

Contoh:

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

Langkah pengiraan:

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

Langkah pengiraan:

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

Langkah pengiraan:

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

Langkah pengiraan:

$$6\frac{1}{5} \text{ km} - 0.6 \text{ km} \times 5 = 6.2 \text{ km} - (0.6 \text{ km} \times 5) \\ = 3.2 \text{ km}$$

Langkah pengiraan:

$$15\frac{1}{2} \ell \div 8.04 + 5 \div \ell \quad 15.5 = \ell \quad 8.04 + 5 \div \ell \\ = 3.1 \ell \quad 8.04 + \ell \\ = 11.14 \ell$$

Langkah pengiraan:

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