

Exercise: 3C

1. Divide and check your answer,

(a) $12686 \div 51$

248 \rightarrow Quotient

$$\begin{array}{r} \text{Divisor } \leftarrow 51 \right) 12686 \\ \underline{-102} \downarrow \\ 0248 \\ \underline{-204} \downarrow \\ 0446 \\ \underline{408} \\ 038 \end{array}$$

Check
 \downarrow

$$\begin{aligned} D &= (d \times Q) + R \\ &= 51 \times 248 + 38 \\ &= 12686 \end{aligned}$$

038 remainder

(b) $49872 \div 68$

733 \rightarrow quotient

Divisor
 $\leftarrow 68$

$$\begin{array}{r} \leftarrow 68 \right) 49872 \rightarrow \text{Dividend} \\ \underline{-476} \downarrow \\ 0227 \\ \underline{-204} \downarrow \\ 232 \\ \underline{-204} \\ 028 \end{array}$$

Check

$$\begin{aligned} &= 68 \times 733 + 28 \\ &= 49872 \end{aligned}$$

028 \rightarrow remainder

(c) $86243 \div 89$

969 \rightarrow Quotient

$$\begin{array}{r} 89 \right) 86243 \\ \underline{801} \downarrow \\ 0614 \\ \underline{-534} \downarrow \\ 0803 \\ \underline{-801} \end{array}$$

2 remainder

Check $D = (d \times Q) + R$

$$\begin{aligned} &= 89 \times 969 + 2 \\ &= 86243 \end{aligned}$$

d) $19498 \div 49$

397 $D = (d \times Q) + R$

$$\begin{array}{r} 49 \right) 19498 \\ \underline{-147} \downarrow \\ 479 \\ \underline{-441} \downarrow \\ 0388 \\ \underline{-343} \\ 45 \end{array}$$

$$= 49 \times 397 + 45$$

$$= 19498$$

D = Dividend

d = Divisor

Q = Quotient

R = remainder

e) $49903 \div 72$
693

$$\begin{array}{r} 72 \overline{) 49903} \\ \underline{432} \\ 670 \\ \underline{648} \\ 223 \end{array}$$

Check

$= 72 \times 693 + 7$
 $= 49903$ 07 remainder

(f) $48091 \div 59$
815

$$\begin{array}{r} 59 \overline{) 48091} \\ \underline{472} \\ 689 \\ \underline{59} \\ 301 \\ \underline{295} \\ 6 \end{array}$$

Check

$= 59 \times 815 + 6$
 $= 48091$

06 remainder

(g) $18468 \div 22$
839

$$\begin{array}{r} 22 \overline{) 18468} \\ \underline{176} \\ 86 \\ \underline{66} \\ 208 \\ \underline{198} \\ 10 \end{array}$$

10 → remainder

(h) $60582 \div 87$
696

$$\begin{array}{r} 87 \overline{) 60582} \\ \underline{522} \\ 838 \\ \underline{783} \\ 552 \\ \underline{522} \\ 30 \end{array}$$

030 remainder

↓ Check

$= 87 \times 696 + 30$
 $= 60582$

Remaining questions in video →

(i) $46943 \div 58$

$$\begin{array}{r} 809 \\ 58 \overline{) 46943} \\ \underline{464} \\ 540 \\ \underline{522} \\ 18 \end{array}$$

18

h) $60582 \div 87$

$$\begin{array}{r} 696 \\ 87 \overline{) 60582} \\ \underline{-522} \downarrow \\ 0838 \\ \underline{-783} \downarrow \\ 0552 \\ \underline{-522} \\ 030 \end{array}$$

$$D = (d \times Q) + R$$

$$= 87 \times 696 + 30$$

$$= 60582$$

53960 \div 41

Tj:

$$\begin{array}{r} 1316 \\ 41 \overline{) 53960} \\ \underline{-41} \downarrow \\ 129 \\ \underline{-123} \downarrow \\ 0066 \\ 41 \downarrow \\ 250 \\ 246 \\ \underline{004} \end{array}$$

Check $= (d \times Q) + R$

$$= 41 \times 1316 + 4$$

$$= 53960$$

(i) $46943 \div 58$

$$\begin{array}{r} 0809 \rightarrow \text{Quotient} \\ 58 \overline{) 46943} \rightarrow \text{Dividend} \\ \underline{-464} \downarrow \\ 0543 \\ \underline{-522} \\ 021 \rightarrow \text{Remainder} \end{array}$$

(K) $30045 \div 25$

$$\begin{array}{r} 1201 \\ 25 \overline{) 30045} \\ \underline{-25} \downarrow \\ 50 \\ \underline{-50} \downarrow \\ 0045 \\ \underline{-25} \\ 20 \end{array}$$

$D = (d \times Q) + R$

$$30045 = 25 \times 1201 + 20$$

$$= 30045$$

(L) $19687 \div 35$

$$\begin{array}{r} 0562 \\ 35 \overline{) 19687} \\ \underline{-175} \downarrow \\ 0218 \\ \underline{-210} \downarrow \\ 0087 \end{array}$$

Check our Answer

$$D = (d \times Q) + R$$

$$19687 = (35 \times 562) + 87$$

