

1

The area of a rectangle is 360 unit squares. How long is the other side if one side is:

- a) 5 units b) 12 units c) 8 units?
 72 units **30 units** **45 units**

Calculate the perimeter of each rectangle.

- a) $P = 2 \times (5 + 72) = 2 \times 77 = 154$ (units)
 b) $P = 2 \times (12 + 30) = 2 \times 42 = 84$ (units)
 c) $P = 2 \times (8 + 45) = 2 \times 53 = 106$ (units)

2

Practise division.

- a)

| | | | | |
|---|---|---|---|-----|
| | 1 | 1 | 6 | r 1 |
| 7 | 8 | 1 | 3 | |
| - | 7 | | | |
| | 1 | 1 | | |
| - | | 7 | | |
| | | 4 | 3 | |
| | | - | 4 | 2 |
| | | | | 1 |

 b)

| | | | | |
|---|---|---|---|---|
| | 1 | 6 | 8 | |
| 4 | 6 | 7 | 2 | |
| - | 4 | | | |
| | 2 | 7 | | |
| - | | 2 | 4 | |
| | | 3 | 2 | |
| | | - | 3 | 2 |
| | | | | 0 |

 c)

| | | | | |
|---|---|---|---|-----|
| | 1 | 1 | 5 | r 5 |
| 6 | 6 | 9 | 5 | |
| - | 6 | | | |
| | 0 | 9 | | |
| - | | 6 | | |
| | | 3 | 5 | |
| | | - | 3 | 0 |
| | | | | 5 |

 d)

| | | | | |
|---|---|---|---|-----|
| | 1 | 3 | 1 | r 2 |
| 3 | 3 | 9 | 5 | |
| - | 3 | | | |
| | 0 | 9 | | |
| - | | 9 | | |
| | | 0 | 5 | |
| | | - | 3 | |
| | | | | 2 |

3

Practise division.

- a)

| | | | |
|---|---|---|-----|
| | 8 | 2 | r 1 |
| 8 | 6 | 5 | 7 |
| - | 6 | 4 | |
| | 1 | 7 | |
| - | | 1 | 6 |
| | | | 1 |

 b)

| | | | |
|---|---|---|-----|
| | 8 | 3 | r 5 |
| 9 | 7 | 5 | 2 |
| - | 7 | 2 | |
| | 3 | 2 | |
| - | | 2 | 7 |
| | | | 5 |

 c)

| | | | |
|---|---|---|-----|
| | 7 | 1 | r 1 |
| 5 | 3 | 5 | 6 |
| - | 3 | 5 | |
| | 0 | 6 | |
| - | | 5 | |
| | | | 1 |

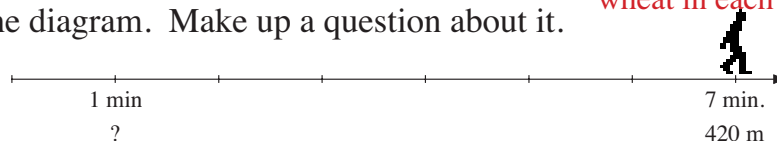
 d)

| | | | |
|---|---|---|---|
| | 9 | 3 | |
| 3 | 2 | 7 | 9 |
| - | 2 | 7 | |
| | 0 | 9 | |
| - | | 9 | |
| | | | 0 |

4

Do the calculations and write the answers in your exercise book.

- a) A floor tile is 205 mm wide. How wide is the utility room if 9 tiles laid end to end are needed for each row? $9 \times 205 \text{ mm} = 1845 \text{ mm}$
 The utility room is 1 m 84 cm 5 mm wide.
- b) 4 sacks of wheat weigh 304 kg altogether. How much wheat, on average, is in each sack? $304 \div 4 = 76$
 On average, there is 76 kg of wheat in each sack.
- c) Study the diagram. Make up a question about it.



E.g. If Sam walks at a steady speed and takes 7 minutes to cover 420 m, how far did Sam walk in the first minute?

7 minutes to cover 420 m 1 minute to cover $420 \text{ m} \div 7 = 60 \text{ m}$

1

Which numbers can be written instead of the letters?

$157 \times 3 + a = 196 + 285$

$a = 10$

$b + 136 \times 2 = 640 \div 8 + 292$

$b = 100$

$376 + 287 \leq c - 126 \leq 134 \times 5$

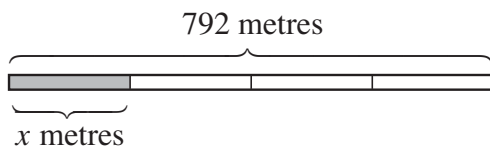
$c: 789, 790, \dots, 796$

$364 \div 7 + 100 < 160 - d < 55 \times 3 - 8$

$d: 7, 6, 5, 4$

2

One quarter of a path has already been paved. How much has been done if the whole path is 792 m long?



$Plan: 792 \text{ m} \div 4$

$Estimation: 800 \text{ m} \div 4 = 200 \text{ m}$

$Answer: 198 \text{ m has been paved.}$

Calculation:

| | | | | |
|---|---|---|---|--|
| | 1 | 9 | 8 | |
| 4 | 7 | 9 | 2 | |
| - | 4 | | | |
| | 3 | 9 | | |
| - | 3 | 6 | | |
| | | 3 | 2 | |
| | - | 3 | 2 | |
| | | | 0 | |

Check:

| | | | | |
|---|---|---|---|---|
| 1 | 9 | 8 | x | 4 |
| 7 | 9 | 2 | | |
| | | | | |
| | | | | |

3

Pete can cycle 4 m in one second. How long will it take Pete to cycle:

a) 760 m

$$\begin{aligned}
 &760 \div 4 \\
 &= 400 \div 4 + 360 \div 4 \\
 &= 100 + 90 \\
 &= 190
 \end{aligned}$$

Pete will cycle 760 m in 190 seconds.

b) 380 m

$$\begin{aligned}
 &380 \div 4 \\
 &= 360 \div 4 + 20 \div 4 \\
 &= 90 + 5 \\
 &= 95
 \end{aligned}$$

Pete will cycle 380 m in 95 seconds.

c) 1520 m

$$\begin{aligned}
 &1520 \div 4 \\
 &= 1200 \div 4 + 320 \div 4 \\
 &= 300 + 80 \\
 &= 380
 \end{aligned}$$

Pete will cycle 1520 m in 380 seconds.

Fill in the missing numbers and signs.

a) $708 \xrightarrow{\div 2} \boxed{3} \boxed{5} \boxed{4} \xrightarrow{\div 3} \boxed{1} \boxed{1} \boxed{8}$

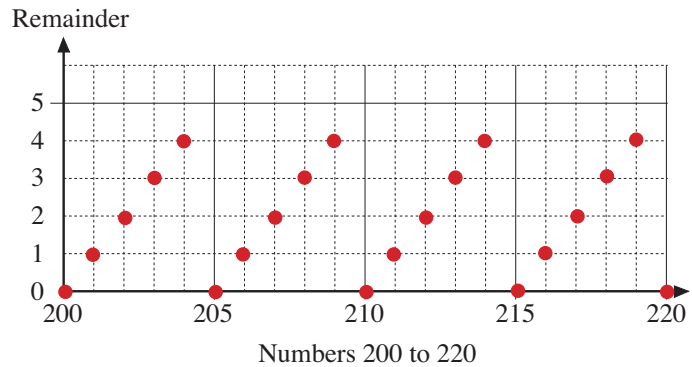
$\xrightarrow{\div 6}$

b) $698 = \boxed{1} \boxed{3} \boxed{9} \times 5 + \boxed{3}$

1

Write the numbers from 200 to 220 in the correct column in the table.
Draw dots on the graph to show the remainders.

| Remainder after dividing by 5 | | | | |
|-------------------------------|-----|-----|-----|-----|
| 0 | 1 | 2 | 3 | 4 |
| 200 | 201 | 202 | 203 | 204 |
| 205 | 206 | 207 | 208 | 209 |
| 210 | 211 | 212 | 213 | 214 |
| 215 | 216 | 217 | 218 | 219 |
| 220 | | | | |



2

Helen had 952 stamps. She gave 278 stamps to Sam.

a) How many stamps did Helen have left? Complete the calculation.

$$\begin{array}{r}
 \boxed{} \boxed{7} \boxed{5} \boxed{2} \\
 - \boxed{2} \boxed{7} \boxed{8} \\
 \hline
 \boxed{4} \boxed{7} \boxed{4}
 \end{array}
 \xleftarrow{-200}
 \begin{array}{r}
 \boxed{9} \boxed{5} \boxed{2} \\
 - \boxed{2} \boxed{7} \boxed{8} \\
 \hline
 \boxed{6} \boxed{7} \boxed{4}
 \end{array}
 \xrightarrow{+100}
 \begin{array}{r}
 \boxed{} \boxed{1} \boxed{0} \boxed{5} \boxed{2} \\
 - \phantom{\boxed{0}} \boxed{2} \boxed{7} \boxed{8} \\
 \hline
 \phantom{\boxed{0}} \boxed{7} \boxed{7} \boxed{4}
 \end{array}$$

b) How many stamps would she have left if she had at first

- i) 200 stamps less ii) 100 stamps more? Fill in the numbers.

3

Fill in the missing numbers.

a)

| | | | |
|---|---|---|---|
| | 4 | 9 | 6 |
| + | 2 | 8 | 1 |
| | 7 | 7 | 7 |

| | | | |
|---|---|---|---|
| | | 3 | 4 |
| + | 3 | 8 | 1 |
| | 4 | 1 | 5 |

| | | | |
|---|---|---|---|
| | 8 | 3 | 4 |
| - | 5 | 0 | 5 |
| | 3 | 2 | 9 |

| | | | |
|---|---|---|---|
| | 9 | 4 | 4 |
| - | 8 | 4 | 1 |
| | 1 | 0 | 3 |

b)

| | | | | | |
|--|---|---|---|---|----------|
| | 2 | 3 | 3 | × | 6 |
| | 1 | 3 | 9 | 8 | |

| | | | | | |
|--|---|---|---|---|---|
| | 1 | 2 | 7 | × | 4 |
| | 5 | 0 | 8 | | |

 $1400 = 233 \times \boxed{6} + \boxed{2}$
 $511 = \boxed{127} \times 4 + \boxed{3}$

4

3 pupils can do 108 multiplications in 3 hours. If all the pupils calculate at the same speed, how many calculations can be done by:

- | | | | |
|---------------------------|------------|---------------------------|------------|
| a) 6 pupils in 3 hours | 216 | b) 3 pupils in 6 hours | 216 |
| c) 6 pupils in 6 hours | 432 | d) 6 pupils in 9 hours | 648 |
| e) 9 pupils in 9 hours | 972 | f) 3 pupils in 90 minutes | 54 |
| g) 6 pupils in 90 minutes | 108 | h) 9 pupils in 90 minutes | 162 |
| i) 1 pupil in 3 hours | 36 | j) 1 pupil in 1 hour? | 12 |

1

Do the calculations in your exercise book. Write the answers in the boxes.

- a) Which number is four times as much as 164? 656
- b) Four times a number is 164. What is the number? 41
- c) Which number is 1 quarter of 456? 114
- d) One quarter of a number is 456. What is the number? 1824

2

Complete the tables. Write the rules in different ways.

a)

| | | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <i>a</i> | 5 | 120 | 78 | 25 | 140 | 12 | 45 | 240 | 199 | 182 |
| <i>b</i> | 235 | 120 | 162 | 215 | 100 | 228 | 195 | 0 | 41 | 58 |

$$a = 240 - b$$

$$b = 240 - a$$

b)

| | | | | | | | | | | |
|----------|----|----|-----|----|-----|---|----|----|----|-----|
| <i>x</i> | 7 | 2 | 100 | 5 | 20 | 0 | 4 | 9 | 5 | 70 |
| <i>y</i> | 49 | 14 | 700 | 35 | 140 | 0 | 28 | 63 | 35 | 490 |

$$x = y \div 7$$

$$y = 7x \text{ (} 7 \times x \text{)}$$

c)

| | | | | | | | | | | |
|----------|----|----|----|----|----|-----|----|-----|----|-----|
| <i>u</i> | 5 | 20 | 50 | 10 | 25 | 100 | 4 | 200 | 40 | 1 |
| <i>v</i> | 40 | 10 | 4 | 20 | 8 | 2 | 50 | 1 | 5 | 200 |

$$u = 200 \div v$$

$$v = 200 \div u$$

d)

| | | | | | | | | | | |
|----------|------|------|------|------|------|------|------|------|------|------|
| <i>m</i> | 725 | 40 | 1205 | 75 | 600 | 1000 | 999 | 1 | 1850 | 1901 |
| <i>n</i> | 1275 | 1960 | 795 | 1925 | 1400 | 1000 | 1001 | 1999 | 150 | 99 |

$$m = 2000 - n$$

$$n = 2000 - m$$

3

List the positive whole numbers which make the inequalities true.

a) $10 \times 100 < \blacksquare < 201 \times 5$ \blacksquare : 1001, 1002, 1003, 1004

b) $125 \div 5 \leq \textcircled{\diagup} < 210 \div 7$ $\textcircled{\diagup}$: 25, 26, 27, 28, 29

c) $4 \times 60 - 4 \times 58 > \frown$ \frown : 1, 2, 3, 4, 5, 6, 7

d) $30 \times 10 < \textcircled{\square} \leq 912 \div 3$ $\textcircled{\square}$: 301, 302, 303, 304

4

A baker needs 7 eggs to make a cake. He has 150 eggs.

How many cakes can he bake and how many eggs will be left over?

Answer: The baker can make 21 cakes with 3 eggs left over.

1

Fill in the missing numbers and units.

- a) 3 m 35 cm = cm b) 5 m 70 cm = 570
- c) 198 cm = m cm d) 609 cm = 6 cm
- e) 8 cm 4 mm = mm f) 1 m 32 cm 5 mm = 1325
- g) 1273 mm = m cm mm
- h) 1905 mm = m cm mm

2

Fill in the missing numbers and units.

- a) 3 litres 42 cl = cl b) 6 litres 58 cl = 658
- c) 824 cl = litres cl d) 703 cl = 7 cl
- e) 1 litre 63 cl 5 ml = ml f) 1 litre 4 cl 8 ml = 1048
- g) 1546 ml = litre cl ml
- h) 1038 ml = litre cl ml

3

Fill in the missing numbers and units.

- a) 1 kg 806 g = g b) 1 kg 257 g = 1257
- c) 1300 g = kg g d) 1604 g = 1 g
- e) 1320 g = 1 320 f) 1001 g = kg 1
- g) 1624 g = kg g h) 1479 g = 1 g

4

Write plans and do the calculations in your exercise book. Fill in the answers.

- a) *Freddy Frog* jumped 120 cm 5 mm, then another 1 m 14 cm 3 mm. How far did he jump altogether?
- b) *Peter Pelican* drank 1 litre 143 ml of water and his son drank 210 ml less. How much water did his son drink?
- c) If one egg weighs 60 g, what is the weight of 31 eggs?
- d) *Sammy Snail* takes 5 minutes to move 1950 mm. How far can he move in 1 minute?

1

Join up the quantities to the tools you would use to measure them.

2

Join up the measures to the matching units.

3

Fill in the missing numbers and units.

- a) $439 \text{ cm} = \boxed{4} \text{ m } \boxed{39} \text{ cm}$ $12 \text{ m } 6 \text{ cm} = \boxed{1206} \text{ cm}$
- b) $1831 \text{ mm} = 1 \boxed{\text{m}} \boxed{83} \text{ cm } 1 \boxed{\text{mm}}$ $1 \text{ m } 67 \text{ mm} = \boxed{1067} \text{ mm}$
- c) $1210 \text{ g} = \boxed{1} \text{ kg } \boxed{210} \text{ g}$ $1 \text{ kg } 340 \text{ g} = 1340 \boxed{\text{g}}$
- d) $1942 \text{ ml} = \boxed{1} \text{ litre } \boxed{942} \text{ ml}$ $1 \text{ litre } 86 \text{ ml} = 1086 \boxed{\text{ml}}$
- e) $11 \text{ minutes} = \boxed{660} \text{ seconds}$ $4 \text{ hrs } 27 \text{ min} = \boxed{267} \text{ min}$
- f) $372 \text{ seconds} = \boxed{6} \text{ min } \boxed{12} \text{ sec}$ $10 \text{ min } 40 \text{ sec} = 640 \boxed{\text{sec}}$
- g) $\text{January} = \boxed{4} \text{ weeks } \boxed{3} \text{ days}$ $\text{June} = 4 \boxed{\text{weeks}} 2 \boxed{\text{days}}$

4

Write in the missing numbers. (They need only be approximate.)

Today's date: (day) / (month) / (year)

My height: cm = m cm

My weight: Length of my step:

My age: years months Length of my span:

I go to bed at: Length of my foot:

I get up at: I sleep for: per day

1

Fill in the missing numbers.

- a) $1500 \text{ m} = \boxed{1} \text{ km } \boxed{500} \text{ m}$ $1 \text{ km } 480 \text{ m} = \boxed{1480} \text{ m}$
- b) $1300 \text{ g} = \boxed{1} \text{ kg } \boxed{300} \text{ g}$ $1 \text{ kg } 290 \text{ g} = \boxed{1290} \text{ g}$
- c) $1640 \text{ mm} = \boxed{1} \text{ m } \boxed{640} \text{ mm}$ $1 \text{ m } 517 \text{ mm} = \boxed{1517} \text{ mm}$
- d) $1240 \text{ ml} = \boxed{1} \text{ litres } \boxed{240} \text{ ml}$ $1 \text{ litre } 804 \text{ ml} = \boxed{1804} \text{ ml}$
- e) $640 \text{ minutes} = \boxed{10} \text{ hrs } \boxed{40} \text{ min}$ $10 \text{ hrs } 56 \text{ min} = \boxed{656} \text{ min}$
- f) $90 \text{ days} = \boxed{12} \text{ weeks } \boxed{6} \text{ days}$ $50 \text{ weeks } 6 \text{ days} = \boxed{356} \text{ days}$

2

- a) $340 \text{ m} + 460 \text{ m} = \dots \mathbf{740 \text{ m} + 60 \text{ m} = 800 \text{ m}} \dots$
 $950 \text{ m} + 320 \text{ m} = \dots \mathbf{1270 \text{ m} = 1 \text{ km } 270 \text{ m}} \dots$
 $1 \text{ km } 50 \text{ m} + 406 \text{ m} = \dots \mathbf{1 \text{ km } 456 \text{ m}} \dots$
 $1 \text{ km } 240 \text{ m} - 1040 \text{ m} = \dots \mathbf{1240 \text{ m} - 1040 \text{ m} = 200 \text{ m}} \dots$
- b) $810 \text{ ml} + 190 \text{ ml} = \dots \mathbf{1000 \text{ ml} = 1 \text{ litre}} \dots$
 $450 \text{ ml} + 870 \text{ ml} = \dots \mathbf{1320 \text{ ml} = 1 \text{ litre } 320 \text{ ml}} \dots$
 $1 \text{ litre } 310 \text{ ml} + 440 \text{ ml} = \dots \mathbf{1 \text{ litre } 750 \text{ ml}} \dots$
 $1 \text{ litre } 50 \text{ ml} - 200 \text{ ml} = \dots \mathbf{1050 \text{ ml} - 200 \text{ ml} = 850 \text{ ml}} \dots$
- c) $157 \text{ g} + 243 \text{ g} = \dots \mathbf{400 \text{ g}} \dots$
 $630 \text{ g} + 510 \text{ g} = \dots \mathbf{1140 \text{ g} = 1 \text{ kg } 140 \text{ g}} \dots$
 $1 \text{ kg } 40 \text{ g} + 350 \text{ g} = \dots \mathbf{1 \text{ kg } 390 \text{ g}} \dots$
 $1 \text{ kg } 210 \text{ g} - 430 \text{ g} = \dots \mathbf{1210 \text{ g} - 430 \text{ g} = 780 \text{ g}} \dots$

3

Fill in the missing numbers to show how much time has passed.

- a) 7 hours 45 min to 12 hours 15 min : $\boxed{4}$ hours $\boxed{30}$ min
- b) 15 hours 30 min to 17 hours 50 min : $\boxed{2}$ hours $\boxed{20}$ min
- c) 6.30 am to 2.40 pm : $\boxed{8}$ hours $\boxed{10}$ min
- d) 08 : 40 : 00 to 15 : 10 : 00 : $\boxed{6}$ hours $\boxed{30}$ min
- e) 10 : 25 : 00 to $\boxed{14 : 40 : 00}$: 4 hours 15 minutes
- f) $\boxed{2 : 10 : 00}$ to 3 : 20 : 00 : 1 hour 10 minutes

1

Write a plan. Do the calculation in your exercise book. Write the answer.

- a) A ball bearing weighs 30 g. What is the weight of 451 ball bearings?

Plan: $30 \text{ g} \times 451$ Answer: $13 \text{ kg } 530 \text{ g}$

- b) A snail moves at a speed of 6 cm per minute. How far will it have gone after 3 hours 7 minutes?

Plan: $(3 \times 60 + 7) \times 6 \text{ cm}$ Answer: $11 \text{ m } 22 \text{ cm}$

- c) Grandma made 17 litres of tomato sauce and poured it into 70 cl bottles. How many bottles did she fill?

Plan: $(17 \times 100) \text{ cl} \div 70$ Answer: 24 bottles
(20 cl of sauce was left.)

- d) Mum bought 14 m 36 cm of material and made 4 tablecloths, all the same size. How much material did she use for each tablecloth?

Plan: $14 \text{ m } 36 \text{ cm} \div 4$ Answer: $3 \text{ m } 59 \text{ cm}$

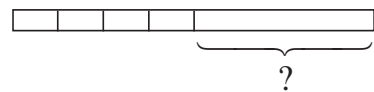
2

Write a plan. Do the calculations in your exercise book. Write the answer.

Mary had a length of ribbon which measured 9 m 24 cm.

She cut 4 pieces from it, each 124 cm long.

What length of ribbon was left?



Plan: $9 \text{ m } 24 \text{ cm} - 4 \times 124 \text{ cm}$... Answer: $4 \text{ m } 28 \text{ cm}$

3

A train travels at a speed of 20 m per second on average. Complete the tables.

- a)

| Journey time | Distance |
|----------------------|----------|
| 30 seconds | 600 m |
| 1 minute | 1200 m |
| 1 and a half minutes | 1800 m |
| 50 seconds | 1000 m |
| 45 seconds | 900 m |

- b)

| Distance | Journey time |
|-------------|--------------|
| 120 metres | 6 seconds |
| 200 metres | 10 seconds |
| 600 metres | 30 seconds |
| 1200 metres | 60 seconds |
| 2000 metres | 100 seconds |

4

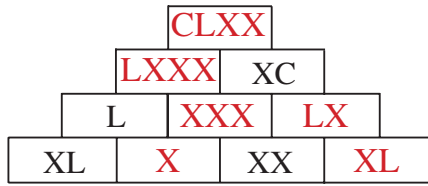
One litre of oil has mass 900 g. Complete the table.

| | | | | | | | |
|----------|-------|-------|---------|----------|--------|-----------|---------|
| Capacity | 10 cl | 30 cl | 1150 cl | 2 litres | 200 ml | 10 litres | 1000 ml |
| Mass | 90 g | 270 g | 10350 g | 1800 g | 180 g | 9 kg | 900 g |

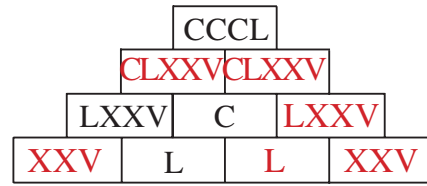
1

The sum of any two adjacent numbers is the number directly above them.
Fill in the missing numbers.

a)



b)

**2**

Fill in the missing quantities.

a) $275 \text{ m} + 420 \text{ m} = \boxed{695} \text{ m}$

$821 \text{ cm} + 275 \text{ cm} = \boxed{10} \text{ m } \boxed{96} \text{ cm}$

$1 \text{ km } 75 \text{ m} - 620 \text{ m} = \boxed{455} \text{ m}$

$427 \text{ m} + 720 \text{ m} = \boxed{1} \text{ km } \boxed{147} \text{ m}$

$72 \text{ mm} + 99 \text{ mm} = \boxed{17} \text{ cm } \boxed{1} \text{ mm}$

b) $27 \text{ cl} + 1260 \text{ cl} = \boxed{12} \text{ litres } \boxed{87} \text{ cl}$

$1 \text{ litre } 27 \text{ cl} - 47 \text{ cl} = \boxed{80} \text{ cl}$

$1 \text{ litre } 226 \text{ ml} + 874 \text{ ml} = \boxed{2} \text{ litres } \boxed{10} \text{ cl}$

$1257 \text{ ml} + 874 \text{ ml} = \boxed{2} \text{ litres } \boxed{131} \text{ ml}$

c) $281 \text{ g} + 322 \text{ g} = \boxed{603} \text{ g}$

$470 \text{ g} + 833 \text{ g} = \boxed{1} \text{ kg } \boxed{303} \text{ g}$

$1 \text{ kg } 57 \text{ g} + 233 \text{ g} = \boxed{1} \text{ kg } \boxed{290} \text{ g}$

$1 \text{ kg } 242 \text{ g} - 1051 \text{ g} = \boxed{191} \text{ g}$

3

The Statue of Liberty in New York is 93 metres high. The Eiffel Tower in Paris is 207 m higher. How tall is the Eiffel Tower?

$$\text{Height SL} = 93 \text{ m} \qquad \text{Height ET} = 93 \text{ m} + 207 \text{ m} = 300 \text{ m}$$

The Eiffel Tower is 300 m high.

4

In a school hall, there are 332 chairs stacked against the wall. They have to be arranged in 8 rows, with the same number of chairs in each row.

If 12 chairs are broken, how many chairs will be in each row?

$$(332 - 12) \div 8 = 320 \div 8 = 40$$

There will be 40 chairs in each row.

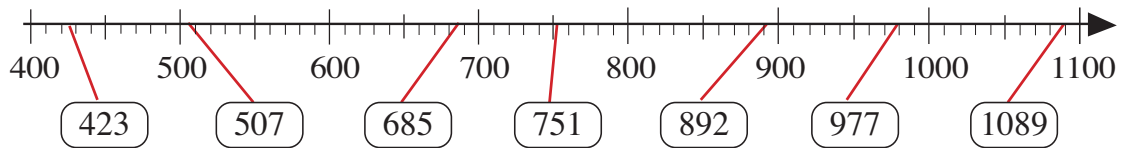
1

Complete the table. Follow the example.

| Number | 1978 | | | | 1083 | | | | 1803 | | | |
|-------------|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|
| Digit value | 1 | 9 | 7 | 8 | 1 | 0 | 8 | 3 | 1 | 8 | 0 | 3 |
| Place value | 1Th | 9 H | 7 T | 8 U | 1 Th | 0 H | 8 T | 3 U | 1 Th | 8 H | 0 T | 3 U |
| Real value | 1000 | 900 | 70 | 8 | 1000 | 0 | 80 | 3 | 1000 | 800 | 0 | 3 |

2

a) Join up the numbers to their approximate position on the number line.



b) Write the next smaller and greater whole tens and hundreds in the boxes.

| | | | | | | | | |
|------|---|------|---|------|---|------|---|------|
| 400 | < | 420 | < | 423 | < | 430 | < | 500 |
| 500 | = | 500 | < | 507 | < | 510 | < | 600 |
| 600 | < | 680 | < | 685 | < | 690 | < | 700 |
| 700 | < | 750 | < | 751 | < | 760 | < | 800 |
| 800 | < | 890 | < | 892 | < | 900 | = | 900 |
| 900 | < | 970 | < | 977 | < | 980 | < | 1000 |
| 1000 | < | 1080 | < | 1089 | < | 1090 | < | 1100 |

3

Continue the sequence.

E.g:

- a) 1024, 512, 256, ... 128, 64, 32, 16, 8, 4
- b) 10, 5, 20, 10, 40, 20, ... 80, 40, 160, 80, 320, 160
- c) 520, 640, 760, ... 880, 1000, 1120, 1240, 1360, 1480
- d) 900, 789, 678 ... 567, 456, 345, 234, 123, 12
- e) 1, 4, 16, 64, ... 256, 1024, 4096

4

Compare the quantities. Write in the missing signs.

- a) 18 m 32 cm 19 m
- b) 1 litre 320 ml 1720 ml
- c) 4 kg 460 g 894 g
- d) 1 m 8 cm 1 mm 176 cm
- e) 48 days 5 weeks 3 days
- f) 420 minutes 7 hrs 31 min

1

Practise addition.

a) $56 + 18 = 74$ $556 + 18 = 574$ $556 + 418 = 974$

b) $43 + 29 = 72$ $243 + 29 = 272$ $243 + 929 = 1172$

c) $37 + 48 = 85$ $937 + 48 = 985$ $937 + 548 = 1485$

2

Practise subtraction.

a) $92 - 16 = 76$ $392 - 16 = 376$ $492 - 216 = 276$

b) $63 - 27 = 36$ $863 - 27 = 836$ $863 - 127 = 736$

c) $56 - 49 = 7$ $556 - 49 = 507$ $556 - 449 = 107$

3

In each sequence the difference between any term and the next term is the same. Write the missing terms.

a) $\underline{1000}$, $\underline{940}$, $\underline{880}$, 820, 760, 700, $\underline{640}$, $\underline{580}$, $\underline{520}$,

b) $\underline{100}$, $\underline{300}$, $\underline{500}$, 700, 900, 1100, $\underline{1300}$, $\underline{1500}$, $\underline{1700}$,

c) $\underline{50}$, $\underline{220}$, $\underline{390}$, 560, 730, 900, $\underline{1070}$, $\underline{1240}$, $\underline{1410}$,

d) $\underline{374}$, $\underline{360}$, $\underline{346}$, 332, 318, 304, $\underline{290}$, $\underline{276}$, $\underline{262}$,

e) $\underline{263}$, $\underline{275}$, 287, $\underline{299}$, 311, $\underline{323}$, $\underline{335}$, $\underline{347}$, $\underline{359}$,

4

Solve the problems in your exercise book.

- a) 60 swallows are resting on the wire between two telegraph poles.
-
- What weight is on the wire if each swallow weighs about 30 grams?

There is about 1 kg 800 g on the wire.

- b) Every time we breathe in, we take about half a litre of air into our lungs.
-
- We take a breath about 20 times every minute.

How much air do we breathe in during 30 minutes?

We breathe in about 300 litres of air in 30 minutes.

- c) A hare weighs about 8 kg and a brown bear can weigh 40 times as much.
-
- What could be the weight of a brown bear?

A brown bear could weigh about 320 kg.**5**Work out a rule and complete the table. *Rule:* ... $c = 3 \times a + b$

| | | | | | | | | | | |
|----------|---|-----|----|-----|-----|------|-----|-----|-----|----|
| <i>a</i> | 1 | 80 | 15 | 100 | 32 | 140 | 90 | 100 | 28 | 20 |
| <i>b</i> | 4 | 2 | 20 | 0 | 4 | 580 | 200 | 200 | 320 | 10 |
| <i>c</i> | 7 | 242 | 65 | 300 | 100 | 1000 | 470 | 500 | 404 | 70 |

1

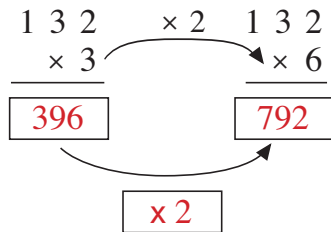
Solve the problems in your exercise book.

- a) An athlete won a high jump competition with a jump of 236 cm. A dolphin can leap out of the water and into the air to a height which is 374 cm above that reached by the high jumper. How high can this dolphin jump? **This dolphin can jump to a height of 6 m 10 cm.**
- b) A milk churn contained 7 litres 5 cl of milk. The farmer's wife used 2 litres 18 cl of the milk to feed some newborn lambs. How much milk was left in the churn? **There was 4 litres 87 cl of milk left in the churn.**

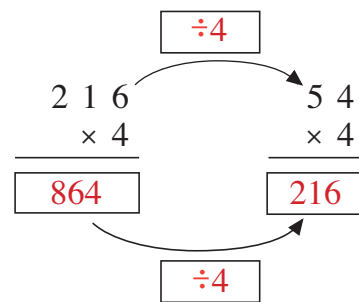
2

Look at how the factors and products change. Fill in the missing numbers and signs.

a)



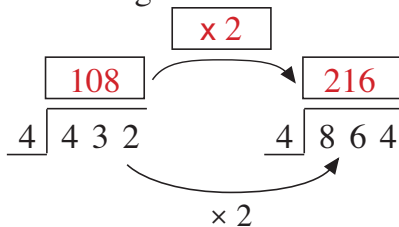
b)



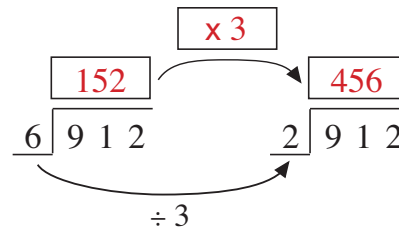
3

Look at how the dividends, divisors and quotients change. Fill in the missing numbers and signs.

a)



b)



4

Solve the problems in your exercise book.

Flora has collected 1200 (1p) coins and she wants to put them in two piggy banks. How many coins should she put in each piggy bank so that there is:

| | PB1 | PB2 |
|---|------------|------------|
| a) twice as much money in one piggy bank as in the other? | 400 coins | 800 coins |
| b) half as much money in one piggy bank as in the other? | 800 coins | 400 coins |
| c) three times as much money in one piggy bank as in the other? | 300 coins | 900 coins |
| d) 1 third as much money in one piggy bank as in the other? | 900 coins | 300 coins |
| e) five times as much money in one piggy bank as in the other? | 200 coins | 1000 coins |
| f) 1 fifth as much money in one piggy bank as in the other? | 1000 coins | 200 coins |
| g) 1 seventh as much money in one piggy bank as in the other? | 1050 coins | 150 coins |

1

Are the statements true or false? Write T for true and F for false in each box.

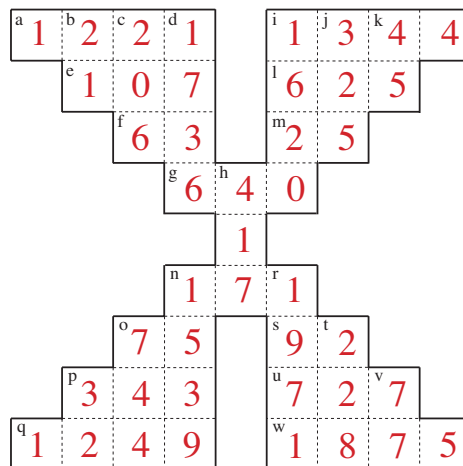
- a) Every number which is a whole hundred is divisible by 2. T
- b) There is an even number which has 5 as its units digit. F
- c) Every number which is divisible by 5 is a whole ten. F
- d) 217 is divisible by neither 5 nor 2. T
- e) Every number which is a whole ten is divisible by 2 and by 5. T

2

Write the answers in the number puzzle.

Horizontal clues

- | | | | |
|----------|--------------------------------|----------|--------------------------------|
| a | Sum of 642 and 579 | n | 513 divided by 3 |
| e | Quotient of 642 divided by 6 | o | 375 divided by 5 |
| f | Difference between 642 and 579 | p | Difference between 796 and 453 |
| g | Sum of 423 and 217 | q | Sum of 796 and 453 |
| i | Product of 168 and 8 | s | Difference between 217 and 125 |
| l | Product of 125 and 5 | u | Sum of 402 and 325 |
| m | 125 divided by 5 | w | Product of 375 and 5 |



Vertical clues

- | | | | |
|----------|---|----------|---|
| b | Quotient of 168 divided by 8 | n | Dividend if divisor is 3, quotient is 513 |
| c | Difference between 423 and 217 | o | Sum of 388 and 356 |
| d | This number has factors 217 and 8 | p | 356 plus this number equals 388 |
| h | Sum of 371 and 46 | r | This number has factors 219 and 9 |
| i | Dividend if divisor is 6, quotient is 270 | t | This number minus 219 equals 9 |
| j | Difference between 371 and 46 | v | Subtrahend if difference is 325 and reductant is 402. |
| k | 270 divided by 6 | | |

1

Continue the sequences.

- a) 800, 400, 200, **100, 50, 25, 12 and a half**
- b) 410, 520, 630, **740, 850, 960, 1070, 1180**
- c) 1, 4, 9, 16, **25, 36, 49, 64, 81, 100**
- d) 800, 698, 596, **494, 392, 290, 188, 86, -16**
- e) 5, 15, 10, 25, **15, 35, 20, 45, 25, 55**

2

Which is more and by how much? Fill in the missing signs and quantities.

- a) 1 m 6 cm 182 cm b) 345 minutes 5 hours 40 minutes
- c) 59 days 8 weeks 3 days d) 182 mm 1 m 57 mm

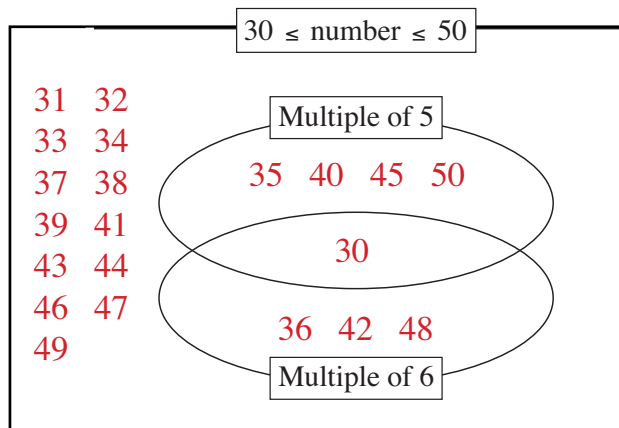
3

Work out the rule and complete the table. Rule: $c = 5 \times a + b$

| | | | | | | | | | | |
|----------|----|-----|-----|------------|------------|----------|-----------|-----------|-----------|---------------------------|
| <i>a</i> | 1 | 80 | 25 | 21 | 12 | 8 | 9 | 31 | 18 | E.g: 100 |
| <i>b</i> | 5 | 5 | 20 | 6 | 48 | 12 | 19 | 15 | 10 | 0 |
| <i>c</i> | 10 | 405 | 145 | 111 | 108 | 52 | 64 | 170 | 100 | 500 |

4

Write the whole numbers from 30 to 50 in the correct set.



5

- a) An express train can travel 250 km every hour. How far can it travel in
 i) 4 hours **1000 km** ii) 2 and a half hours? **625 km**
- b) An athlete can run 100 m in 12 seconds. How far can the athlete run in
 i) 6 seconds **50 m** ii) 1 minute? **500 m**