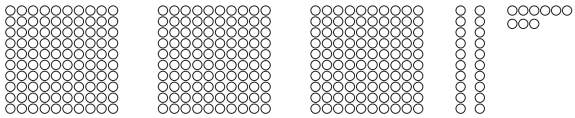
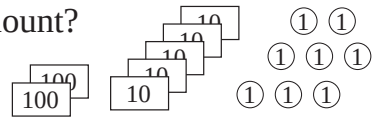
1

Write the numbers as digits in the place-value table.

a) How many circles are in the diagram?



b) What is the total amount?



c) Nine hundred and thirty seven

d) $3 \times 100 + 1 \times 10 + 9 \times 1$

e) 6 hundreds + 8 tens + 3 units

	H	T	U
a)			
b)			
c)			
d)			
e)			

2

Write these numbers as digits and list them in increasing order.

one thousand four hundred and eighteen, six hundred and five, ninety eight, five hundred and sixty, seven hundred and seventy seven

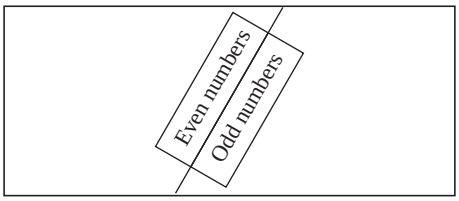
. . . . . .

3

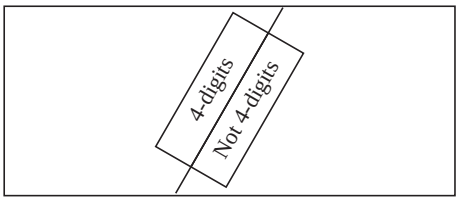
Write these numbers in the correct sets.

{ 6, 10, 54, 109, 468, 893, 1000, 1302, 1517, 1999 }

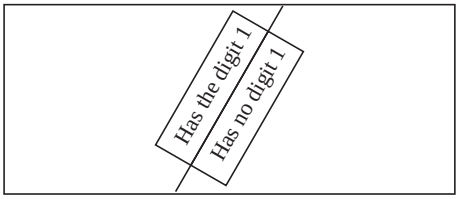
a)



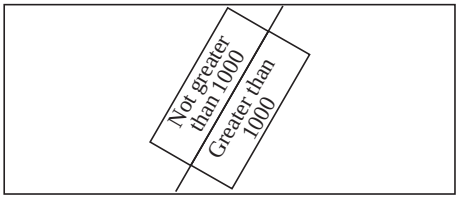
b)



c)



d)



4

Study the numbers. Are the statements true or false? Write T or F in each box.

a) There is at least one number which is odd. ☐

b) All the numbers are even. ☐

c) None of the numbers is more than 1500. ☐

d) There are no whole tens. ☐

e) Not every number is odd. ☐

0 6 23 72
475 802
1240 1499

1 Fill in the missing numbers, then list them in decreasing order.

$8 \times 100 + 5 \times 10 =$ ☐ $3 \times 100 + 7 \times 1 =$ ☐

$8 \times 100 + 5 \times 1 =$ ☐ $3 \times 100 + 7 \times 10 =$ ☐

$1 \times 1000 + 6 \times 10 =$ ☐ $1 \times 1000 + 8 \times 100 =$ ☐

$1 \times 1000 + 6 \times 1 =$ ☐ $1 \times 100 + 8 \times 10 =$ ☐

. . . . . .

2 Fill in the missing numbers, then list them in increasing order.

$600 + 30 =$ ☐ $1000 + 500 + 4 =$ ☐

$300 + 60 =$ ☐ $1000 + 40 + 5 =$ ☐

$600 + 3 =$ ☐ $1000 + 900 + 1 =$ ☐

$300 + 6 =$ ☐ $1000 + 90 + 1 =$ ☐

. . . . . .

3 Write the whole numbers up to 1000 which have the sum of their digits as 3.

. . . . . .

4 Write the Roman numerals as Arabic numbers.

a) CV = ☐ b) CXXXIX = ☐

c) CXLVIII = ☐ d) DCLX = ☐

e) CMIX = ☐ f) MCMXCVIII = ☐

5 Write the numbers which have:

a) an even digit as their hundreds digit and 500 as their nearest ten.

. . . . . .

b) an odd digit as their hundreds digit and 500 as their nearest ten.

. . . . . .

c) the smallest even digit as their tens digit and 1010 as their nearest ten.

. . . . . .

1 The rule for the next term in the sequence is: *3 times the previous term plus 2.*

a) Write the first six terms of the sequence if the first term is 2.

. . . . . .

b) Write the first six terms of the sequence if the first term is 3.

. . . . . .

2 Complete the tables.

a)

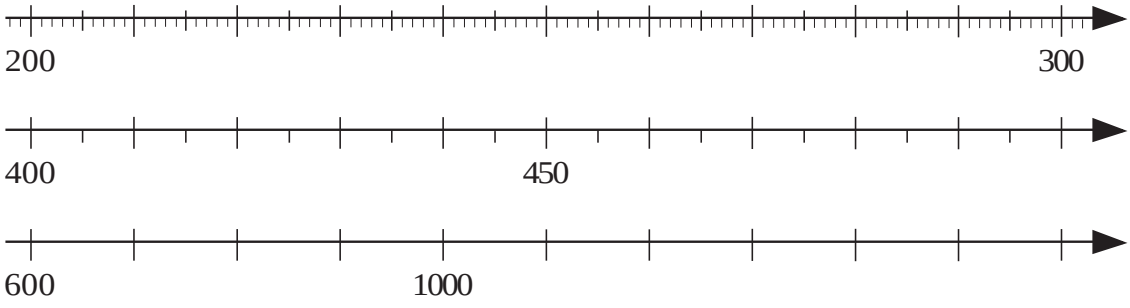
Number	Next 10		Rounded to nearest 10
	smaller	greater	
3			
27			
86			
105			
341			
450			
500			
996			

b)

Number	Next 100		Rounded to nearest 100
	smaller	greater	
3			
27			
86			
105			
341			
450			
500			
996			

3 Mark the numbers with a dot and a letter on a suitable number line.

$a = 205$ $b = 640$ $c = 432$ $d = 278$ $e = 486$ $f = 1005$
$g = 490$ $h = 250$ $i = 1075$ $j = 500$ $k = 1200$ $l = 455$

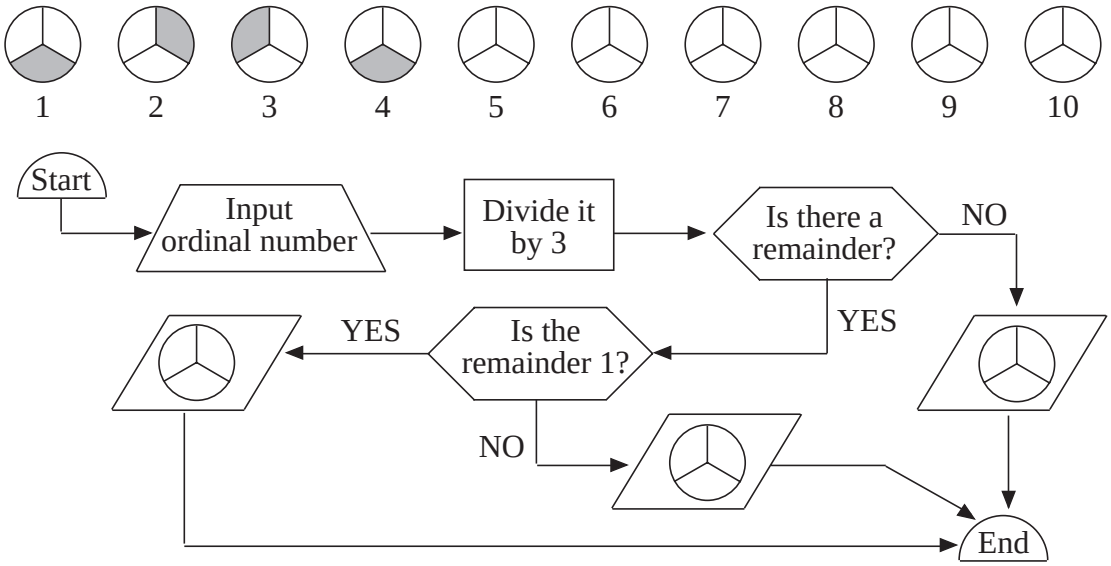


4 Write the numbers in the set diagram.

5, 100, 909,
0, 217, 1000,
13, 352, 1215,
60, 834, 1605,
78, 900, 1780

The number is	even	odd
divisible by 5		
not divisible by 5		

1 Continue the pattern. Colour the correct part of the circles in the **flow chart**.



2 Continue the sequence using Roman numerals.

a) XLVII, LXVII, LXXXVII, ...

b) CMI, DCCCI, DCCI, ...

3 Round the numbers. Complete the table.

Number	Rounded to the nearest:		
	ten	hundred	thousand
4			
36			
50			
95			
172			
600			
999			
1050			
1846			

4 Write the meaning of each set label. Write another 3 numbers in each set.

	A	B
C	420 368 716	6 78 1098
D	235 851 999	3 57 1003

A: .....

B: .....

C: .....

D: .....

1 Write these numbers in words.

a) 3210 . . . . . .

b) 7004 . . . . . .

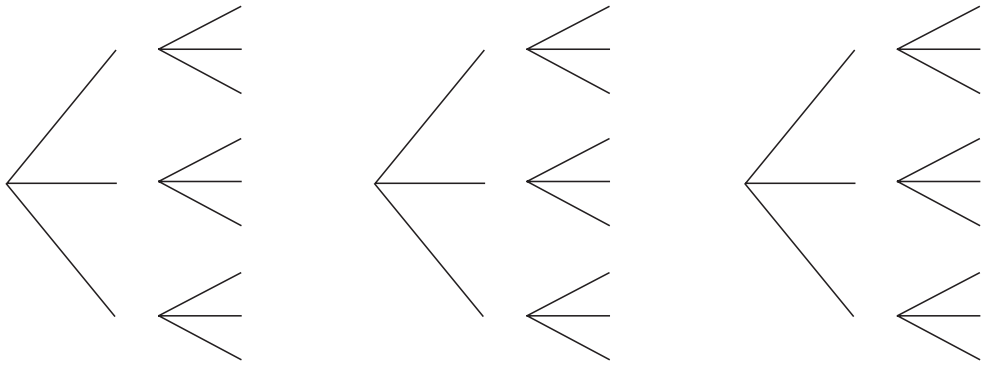
c) 2300 . . . . . .

d) 995 . . . . . .

e) 1068 . . . . . .

2 How many 3-digit numbers can you make from these digits? 5 6 1

a) Complete the tree diagrams.

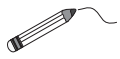


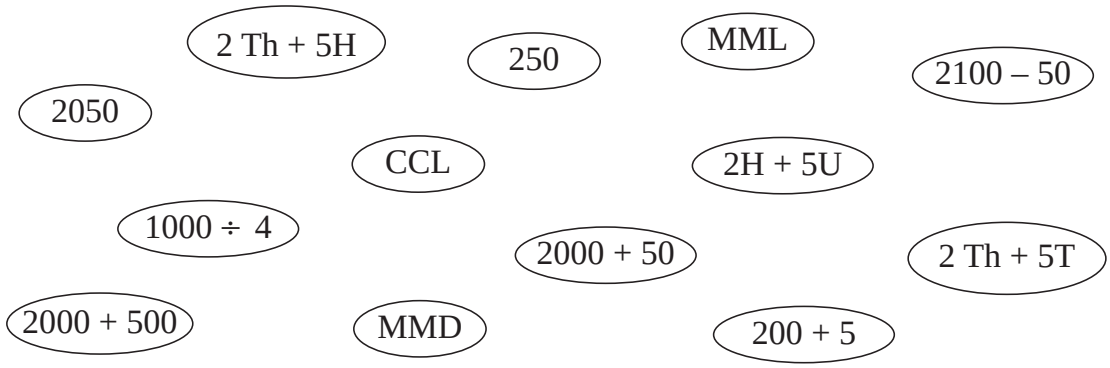
b) List the numbers. . . . . .

. . . . . .

. . . . . .

3 Join up the equal values.





4 Continue the sequence.

a) 990, 885, 780, ...

b) MMDXV, MMCCLX, MMV, ...

1 Write your estimation in detail. Calculate the exact sum.

a) 263 + 526

E: *C:*

b) 354 + 419

E: *C:*

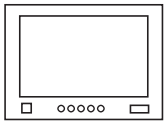
c) 475 + 53 + 419

E: *C:*

2 How much money do we have left? Estimate, calculate and check the result.

We had: 100 100 100 20 (1) (1) (1) 100 100 100 20 (1) (1)

We bought:



£232

E:

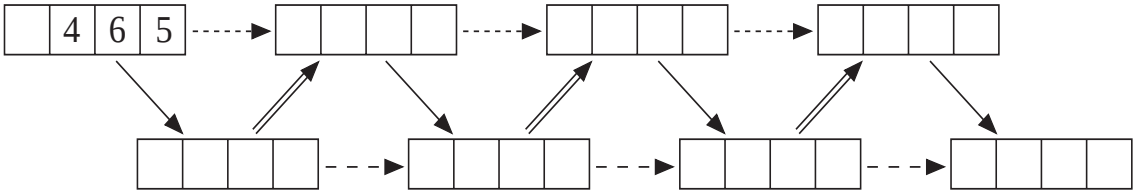
C: *Check:*

3 What is the difference between 743 and 558? Estimate, calculate and check the result.

E:

C: *Check:*

4 Fill in the missing numbers and write above the ⇢ and ⇢ arrows what they mean if → means + 180 and ⇒ means – 75.



1 Practise addition. Estimate the sum first.

a) 263 + 526 *E:*

b) 493 + 174 *E:*

c) 278 + 426 *E:*

2 Practise subtraction. Estimate the difference first. Check your result in two ways.

a) 978 – 426 *E:* *C:* *Check:* *Check:*

b) 803 – 576 *E:* *C:* *Check:* *Check:*

3 Complete the additions and subtractions.

a)

	6	3	8
+			
1	0	7	4

b)

+	2	5	7
	6	0	5

c)

	9	1	5
–			
	1	7	3

d)

–		4	8	7
		6	5	3

4 *I thought of a number, then added 900.*
The result was a number less than 1000.

Write ✔ if you think the statement is true and ✗ if you think it is false.

a) The number I first thought of must be less than 100. ☐

b) The number I first thought of must be less than 99. ☐

c) The number I first thought of could be equal to 99. ☐

d) The number I first thought of cannot be more than 99. ☐

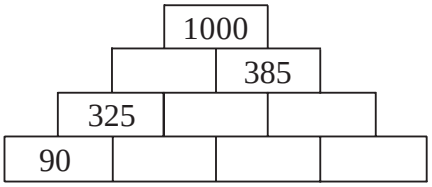
e) The number I first thought of could be equal to 10. ☐

f) The number I first thought of cannot be 100. ☐

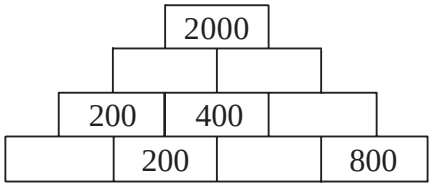
1

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 numbers.

a)

30	+	120	+	120	=		
+		+		+		+	
200	+	150	−	130	=		
+		−		−		−	
110	+	30	+	110	=		
=		=		=		=	
	−		+		=		

b)

260	−	120	+	50	=		
−		+		+		−	
110	+	150	−	100	=		
+		−		−		+	
30	+	230	−	40	=		
=		=		=		=	
	−		+		=		

3

Do the additions and subtractions. Look for connections between them.

a)	25 + 40 =	725 + 40 =	725 + 140 =
b)	58 – 40 =	658 – 40 =	658 – 240 =
c)	60 + 17 =	60 + 317 =	460 + 317 =
d)	93 – 63 =	393 – 63 =	393 – 363 =

4

Underline the important data. Write a plan, estimate, calculate and check your result. Write the answer in a sentence. Do the work in your exercise book.

a) There were 348 boys and 316 girls at a summer camp. How many children were at the camp altogether?

b) 417 children were taking part in a concert. If 188 of them were girls, how many boys were there?

c) In an obstacle race, the number of girls taking part was 43 less than the number of boys. If 227 boys took part, how many girls were in the race?

d) 234 girls took part in a treasure hunt. Eve came second. The number of girls taking part was 109 less than the number of boys.
How many boys took part? How many children took part altogether?

e) One morning, there were 664 children on the beach. 385 of them went home for lunch. How many children remained on the beach?

1 Complete the table using the rule given.

a	648	563	437	343	847	358	1345	
b	342	204	548	285	51			814
$a + b$						919	1629	1548

2 Complete the table using the rule given.

x	674	452	548	343	847	919	1629	
y	261	309	437	285	51			734
$x - y$						358	284	814

3 Draw arrows pointing towards the multiples.

4 Underline the data. Write a plan, estimate, calculate and check your result. Write the answer in a sentence. Do the work in your exercise book.

a) Ann has £716 and Barry has £285 less. How much money does Barry have? How much money do Ann and Barry have altogether?

b) Ann has £716 and Sarah has £285 more. How much does Sarah have? How much do Ann and Sarah have altogether?

c) Ann has £716, which is £285 less than Tom has. How much does Tom have? How much do Ann and Tom have altogether?

d) Ann has £716, which is £285 more than Suzy has. How much does Suzy have? How much do Ann and Suzy have altogether?

e) Ted has £761 and Sam has £285. How much money should Ted give to Sam so that they both have the same amount?

5 Fill in the missing digits.

a)

		4	3
+	6		9
	7	5	

b)

		5	
+	8		7
1	0	2	3

c)

	9		3
–	5	6	
		1	2

d)

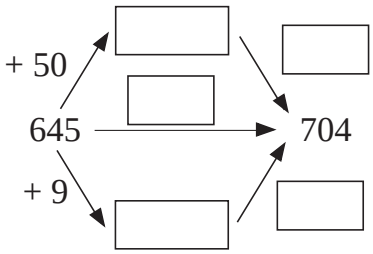
		0	
–	5		4
	2	7	3

1 Practise addition and subtraction.

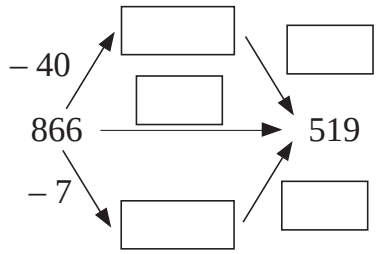
a)	653 + 25 = ☐	b) 200 – 25 = ☐	c) 109 + 9 = ☐
	394 + 37 = ☐	645 – 40 = ☐	376 + 33 = ☐
	116 + 93 = ☐	749 – 550 = ☐	900 – 542 = ☐
	725 + 108 = ☐	853 – 54 = ☐	2000 + 11 = ☐
	1010 + 29 = ☐	210 – 82 = ☐	1550 – 440 = ☐

2 Fill in the missing numbers and signs.

a)



b)



3 Practise multiplication.

a)	40 × 3 = ☐	b) 70 × 7 = ☐	c) 20 × 8 = ☐
	2 × 70 = ☐	3 × 90 = ☐	400 × 0 = ☐
	61 × 8 = ☐	26 × 4 = ☐	30 × 10 = ☐
	25 × 6 = ☐	91 × 9 = ☐	100 × 10 = ☐
	17 × 4 = ☐	85 × 5 = ☐	110 × 11 = ☐

4 Complete the table. Write the rule in different ways.

a	840	360	690	1224		816	1535	
b	20	10		12	7			25
c	42		23		107	816	307	0

a = *b* = *c* =

5 David had a large box of sweets. He gave 15 sweets to each of his 6 friends and had 25 sweets left. How many sweets were in the box before David opened it?

☐ sweets

1 Calculate the products. Look for relationships.

a) $4 \times 5 =$ $40 \times 5 =$ $4 \times 50 =$ $4 \times 500 =$ $40 \times 50 =$

b) $3 \times 6 =$ $30 \times 6 =$ $3 \times 60 =$ $3 \times 600 =$ $30 \times 60 =$

c) $4 \times 4 =$ $40 \times 4 =$ $4 \times 40 =$ $4 \times 400 =$ $40 \times 40 =$

2 Calculate the quotients. Look for relationships.

a) $12 \div 4 =$ $120 \div 40 =$

$120 \div 4 =$ $1200 \div 40 =$

$1200 \div 4 =$ $1200 \div 400 =$

b) $20 \div 5 =$ $200 \div 5 =$

$200 \div 5 =$ $2000 \div 50 =$

$2000 \div 5 =$ $2000 \div 500 =$

3 Calculate the products. Look for relationships.

a) $3 \times 100 =$

$3 \times 40 =$

$3 \times 140 =$

b) $100 \times 7 =$

$30 \times 7 =$

$130 \times 7 =$

c) $200 \times 4 =$

$80 \times 4 =$

$280 \times 4 =$

d) $3 \times 12 =$

$3 \times 120 =$

$30 \times 12 =$

e) $6 \times 13 =$

$6 \times 130 =$

$60 \times 13 =$

f) $7 \times 14 =$

$7 \times 140 =$

$70 \times 14 =$

4 Underline the data. Write a plan. Estimate, calculate and check the result in your exercise book. Write the answer as a sentence.

a) A box of apples weighs about 28 kg. How much do 30 boxes of apples weigh?

Answer: . . . . . .

b) How much is the cost of 8 kg of pears if 1 kg costs £1.90?

Answer: . . . . . .

5 Write a plan for each question.

a) 6 children collected 120 kg of chestnuts. They share them equally. How many kg of chestnuts does each child get? . . . . . .

b) At the market, they are packing fruit into boxes, 30 kg per box. They have 900 kg of fruit. How many boxes will they need? . . . . . .

1

Fill in the numbers which are missing from the multiplication table.

×	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
0				0		0		0		0	0
1	0		2						8	9	
2		2	4			10		14	16		
3			6				18	21			
4	0	4	8	12	16	20	24	28	32	36	40
5			10		20	25					
6		6	12	18	24	30		42		54	
7			14	21			42				
8		8	16			40		56			80
9	0	9	18						72		
10	0		20			50		70		90	

2

Do the calculations in the correct order.

a) $60 + 20 \times 2 =$ ☐

$(60 + 20) \times 2 =$ ☐

$60 \times 2 + 20 =$ ☐

$60 \times 2 + 20 \times 2 =$ ☐

b) $15 + 30 \div 3 =$ ☐

$(15 + 30) \div 3 =$ ☐

$15 \div 3 + 30 =$ ☐

$15 \div 3 + 30 \div 3 =$ ☐

3

Complete the tables. Write the rules in different ways.

a)

a	4	150	632	111		354		635	246	
b	354	500	982		954		1054			712

$a =$ $b =$

b)

x	20	15	200	111		180		99	120	
y	140	105	1400		350		1050			700

$x =$ $y =$

c)

u	888	346	1	551		500		273		1001
v	112	654	999		419		32		660	

$u =$ $v =$

d)

m	2	40	10		200		8		25	800
n	400	20	80	1		160		16		

$m =$ $n =$

1 Do the calculations in the correct order.

a) $2 \times 400 - 258 =$ ☐

b) $3 \times 140 - 130 =$ ☐

c) $7 \times 80 + 258 =$ ☐

d) $220 + 4 \times 90 =$ ☐

e) $912 - 5 \times 50 =$ ☐

f) $595 - 6 \times 70 =$ ☐

2 Do the calculations in the correct order.

a) $640 \div 8 + 379 =$ ☐

b) $580 + 420 \div 6 =$ ☐

c) $910 - 480 \div 8 =$ ☐

d) $(1052 - 492) \div 7 =$ ☐

e) $810 \div 9 - 34 =$ ☐

f) $1200 \div (9 - 5) =$ ☐

3 Underline the data. Make a plan. Estimate, calculate and write the answer.

a) George has 324 stamps and Rita has 3 times as many as George.
How many stamps does Rita have?

b) Helen has 324 postcards, which is 3 times as many as Mary has.
How many postcards does Mary have?

c) Steve has 324 marbles, which is a quarter of the number of marbles that Jack has. How many marbles does Jack have?

d) Johnny has 324 football cards and Mike has 1 quarter of that number.
How many football cards does Mike have?
How many football cards do the two boys have altogether?

e) Charlie has £324. How many matchbox cars can he buy with this money if each car costs £9? How much money would he have left?

1 Estimate the product first, then do the multiplication.

a) *E:* ☐☐☐ *E:* ☐☐☐ *E:* ☐☐☐ *E:* ☐☐☐☐

	7	3	×	6

1	4	6	×	3

2	4	6	×	3

	3	4	6	×	3

b) *E:* ☐☐☐ *E:* ☐☐☐ *E:* ☐☐☐ *E:* ☐☐☐

	4	7	×	8

1	4	7	×	3

1	4	7	×	6

2	4	7	×	3

2 Estimate the quotient first, then do the division. Check with multiplication.

a) *E:* .....

	H	T	U
4	8	4	8

Check:

H	T	U		
			×	4

b) *E:* .....

	H	T	U
5	6	7	0

Check:

H	T	U		
			×	5

c) *E:* .....

	H	T	U
8	9	7	6

Check:

H	T	U		
			×	8

3 Underline the data. Make a plan. Estimate, calculate and write the answer.

a) Lisa had collected 516 shells. She gave 1 quarter of the shells to Alice and 1 third of them to Julie. How many shells did Lisa have left?

b) Darren bought 5 pairs of sports socks for £7.75. Jamie bought 6 pairs of the same kind of socks. How much did Jamie pay?

1 Write the whole numbers up to 1000 which have 4 as the sum of their digits.

. . . . . .

. . . . . .

2 Study the numbers. Are the statements true or false? Write T or F in each box.

4	100	27	76
243		114	
	45		135

a) All the even numbers are multiples of 4. ☐

b) All the odd numbers are divisible by 9. ☐

c) There are no whole tens. ☐

d) All the odd numbers divisible by 5 have 5 as the units digit. ☐

3 Write these numbers in the correct set.

0, 9, 103,
99, 6, 49,
160, 669, 60,
20, 207, 900,
63, 2007, 450

The number is	even	odd
divisible by 9		
not divisible by 9		

4 Fill in the missing digits.

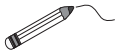
a)
		6	7
+	3		2
	6	1	

b)
		9	
+	7		2
1	0	7	5

c)
	9		8
–	4	3	
		5	2

d)
		5	
–	3		3
	4	8	8

5 Join up the equal values.

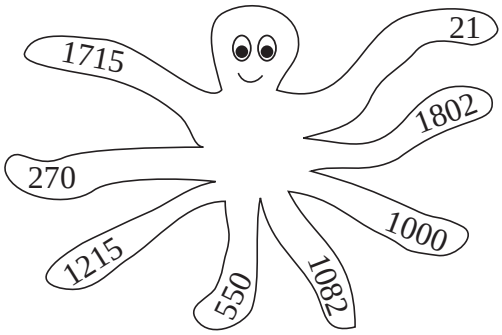


45 + 75 × 3

Half of 2430

1645 + 560 ÷ 8

324 ÷ 3 + 892



770 ÷ 7 × 5

(1324 – 423) × 2

(328 – 139) ÷ 9

1Th + 8T + 2U

1 Calculate the quotient and the remainder. Check with multiplication.

a)

	H	T	U
6	6	4	7

Check:

H	T	U		
			×	6
	+			

b)

	H	T	U
7	8	7	2

Check:

H	T	U		
			×	7
	+			

c)

	H	T	U
4	9	4	9

Check:

H	T	U		
			×	4
	+			

2 Is 642 divisible by these numbers? Do the calculations, then write YES or NO.

a) 3 . . . . . b) 4 . . . . . c) 6 . . . . . d) 9 . . . . .

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

a) Which number is three times as much as 264? ☐

b) Three times a number is 264. What is the number? ☐

c) Which number is 1 third of 426? ☐

d) One third of a number is 426. What is the number? ☐

4 Write 2-digit numbers which have a remainder of 6 after dividing by 7.

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? . . . . .

Calculate the perimeter of each rectangle.

a) P = ...

b) P = ...

c) P = ...

2 Practise division.

a)

7	8	1	3

b)

4	6	7	2

c)

6	6	9	5

d)

3	3	9	5

3 Practise division.

a)

8	6	5	7

b)

9	7	5	2

c)

5	3	5	6

d)

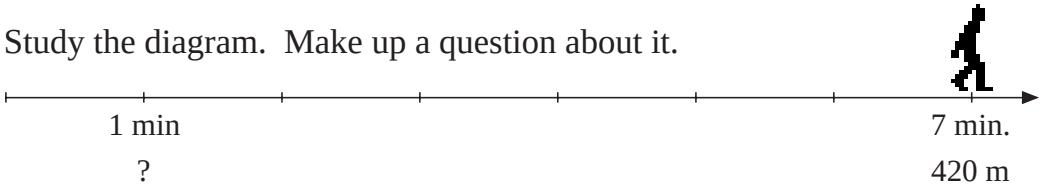
3	2	7	9

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?

b) 4 sacks of wheat weigh 304 kg alogether. How much wheat, on average, is in each sack?

c) Study the diagram. Make up a question about it.



1 Which numbers can be written instead of the letters?

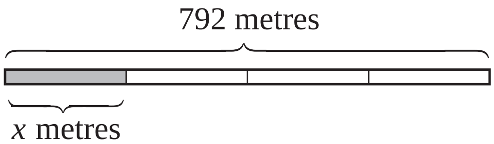
$157 \times 3 + a = 196 + 285$ $\qquad a =$ ....

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

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

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

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



Plan: ....

Estimation: ....

Answer: ....

Calculation:

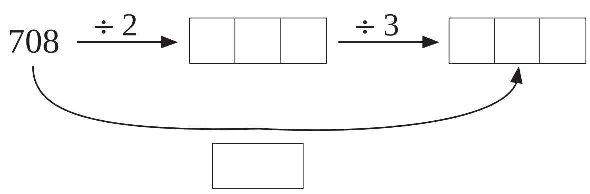
Check:

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

a) 760 m $\qquad$ b) 380 m $\qquad$ c) 1520 m?

.... $\qquad$ .... $\qquad$ ....

4 Fill in the missing numbers and signs.

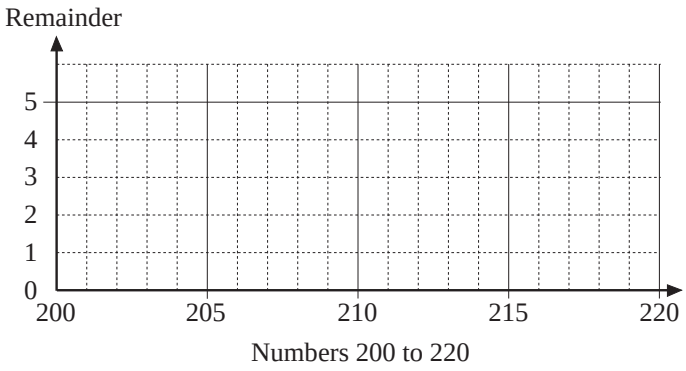
a) 

b) $698 = \square\square\square \times 5 + \square$

1

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

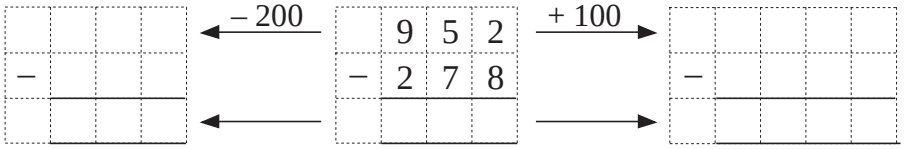
Remainder after dividing by 5				
0	1	2	3	4



2

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

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



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
+			
	7	7	7

+	3	8	1
	4	1	5

	8	3	4
–			
	3	2	9

–	8	4	1
	1	0	3

b)

	2	3	3	×	
1	3	9	8		

			×	4
5	0	8		

1400 = 233 × ☐ + ☐

511 = ☐ × 4 + ☐

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 ☐ b) 3 pupils in 6 hours ☐

c) 6 pupils in 6 hours ☐ d) 6 pupils in 9 hours ☐

e) 9 pupils in 9 hours ☐ f) 3 pupils in 90 minutes ☐

g) 6 pupils in 90 minutes ☐ h) 9 pupils in 90 minutes ☐

i) 1 pupil in 3 hours ☐ j) 1 pupil in 1 hour? ☐

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

a) Which number is four times as much as 164? ☐

b) Four times a number is 164. What is the number? ☐

c) Which number is 1 quarter of 456? ☐

d) One quarter of a number is 456. What is the number? ☐

2 Complete the tables. Write the rules in different ways.

a)

a	5	120	78	25		12	45			182
b	235	120	162		100			0	41	

a = b =

b)

x	7	2	100	5	20	0		9		
y	49	14	700				28		35	490

x = y =

c)

u	5	20	50	10	25			200	40	1
v	40	10	4			2	50			

u = v =

d)

m	725	40	1205	75	600		999	1	1850	
n	1275	1960	795			1000				99

m = n =

3 List the positive whole numbers which make the inequalities true.

a) $10 \times 100 < \square < 201 \times 5$ $\square$: . . . . . .

b) $125 \div 5 \leq \otimes < 210 \div 7$ $\otimes$: . . . . . .

c) $4 \times 60 - 4 \times 58 > \cap$ $\cap$: . . . . . .

d) $30 \times 10 < \pentagon \leq 912 \div 3$ $\pentagon$: . . . . . .

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: . . . . . .

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? ☐

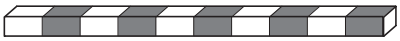
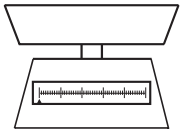
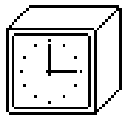
b) *Peter Pelican* drank 1 litre 143 ml of water and his son drank 210 ml less. How much water did his son drink? ☐

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.

3 kg 480 g | 5 hours 15 minutes | 1 m 52 cm | 34 cl

2 Join up the measures to the matching units.

metre	capacity	centilitre
kilogram	time	minute
litre	length	gram
centimetre	mass	day

3 Fill in the missing numbers and units.

a) 439 cm = ☐ m ☐ cm 12 m 6 cm = ☐ cm

b) 1831 mm = 1 ☐ ☐ cm 1 ☐ 1 m 67 mm = ☐ mm

c) 1210 g = ☐ kg ☐ g 1 kg 340 g = 1340 ☐

d) 1942 ml = ☐ litre ☐ ml 1 litre 86 ml = 1086 ☐

e) 11 minutes = ☐ seconds 4 hrs 27 min = ☐ min

f) 372 seconds = ☐ min ☐ sec 10 min 40 sec = 640 ☐

g) January = ☐ weeks ☐ days June = 4 ☐ 2 ☐

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 m = ☐ km ☐ m 1 km 480 m = ☐ m

b) 1300 g = ☐ kg ☐ g 1 kg 290 g = ☐ g

c) 1640 mm = ☐ m ☐ mm 1 m 517 mm = ☐ mm

d) 1240 ml = ☐ litres ☐ ml 1 litre 804 ml = ☐ ml

e) 640 minutes = ☐ hrs ☐ min 10 hrs 56 min = ☐ min

f) 90 days = ☐ weeks ☐ days 50 weeks 6 days = ☐ days

2

a) 340 m + 460 m = ...

950 m + 320 m = ...

1 km 50 m + 406 m = ...

1 km 240 m – 1040 m = ...

b) 810 ml + 190 ml = ...

450 ml + 870 ml = ...

1 litre 310 ml + 440 ml = ...

1 litre 50 ml – 200 ml = ...

c) 157 g + 243 g = ...

630 g + 510 g = ...

1 kg 40 g + 350 g = ...

1 kg 210 g – 430 g = ...

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

a) 7 hours 45 min to 12 hours 15 min : ☐ hours ☐ min

b) 15 hours 30 min to 17 hours 50 min : ☐ hours ☐ min

c) 6.30 am to 2.40 pm : ☐ hours ☐ min

d) 08 : 40 : 00 to 15 : 10 : 00 : ☐ hours ☐ min

e) 10 : 25 : 00 to ☐ : 4 hours 15 minutes

f) ☐ 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: . . . . . *Answer:* . . . . . .

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

Plan: . . . . . *Answer:* . . . . . .

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

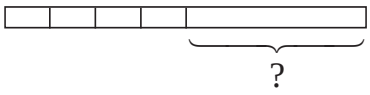
Plan: . . . . . *Answer:* . . . . . .

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: . . . . . *Answer:* . . . . . .

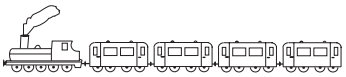
2 Write a plan. Do the calculations in your exercise book. Write the answer.

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: . . . . . *Answer:* . . . . . .

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

a) 

Journey time	Distance
30 seconds	
1 minute	
1 and a half minutes	
50 seconds	
45 seconds	

b) 

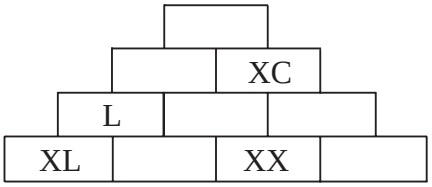
Distance	Journey time
120 metres	
200 metres	
600 metres	
1200 metres	
2000 metres	

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

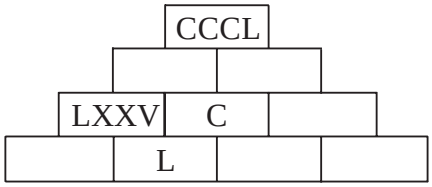
Capacity	10 cl	30 cl	1150 cl		200 ml		1000 ml
Mass				1800 g		9 kg	

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 m + 420 m = ☐ m

821 cm + 275 cm = ☐ m ☐ cm

1 km 75 m – 620 m = ☐ m

427 m + 720 m = ☐ km ☐ m

72 mm + 99 mm = ☐ cm ☐ mm

b) 27 cl + 1260 cl = ☐ litres ☐ cl

1 litre 27 cl – 47 cl = ☐ cl

1 litre 226 ml + 874 ml = ☐ litres ☐ cl

1257 ml + 874 ml = ☐ litres ☐ ml

c) 281 g + 322 g = ☐ g

470 g + 833 g = ☐ kg ☐ g

1 kg 57 g + 233 g = ☐ kg ☐ g

1 kg 242 g – 1051 g = ☐ 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?

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?

1 Complete the table. Follow the example.

Number	1978				1083				1803			
Digit value	1											
Place value	1 Th											
Real value	1000											

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

423 507 685 751 892 977 1089

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

☐	<	☐	<	423	<	☐	<	☐
☐	=	☐	<	507	<	☐	<	☐
☐	<	☐	<	685	<	☐	<	☐
☐	<	☐	<	751	<	☐	<	☐
☐	<	☐	<	892	<	☐	=	☐
☐	<	☐	<	977	<	☐	<	☐
☐	<	☐	<	1089	<	☐	<	☐

3 Continue the sequence.

a) 1024, 512, 256, ...

b) 10, 5, 20, 10, 40, 20, ...

c) 520, 640, 760, ...

d) 900, 789, 678 .....

e) 1, 4, 16, 64, ...

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 = ☐ 556 + 18 = ☐ 556 + 418 = ☐

b) 43 + 29 = ☐ 243 + 29 = ☐ 243 + 929 = ☐

c) 37 + 48 = ☐ 937 + 48 = ☐ 937 + 548 = ☐

2 Practise subtraction.

a) 92 – 16 = ☐ 392 – 16 = ☐ 492 – 216 = ☐

b) 63 – 27 = ☐ 863 – 27 = ☐ 863 – 127 = ☐

c) 56 – 49 = ☐ 556 – 49 = ☐ 556 – 449 = ☐

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

a) _____ , _____ , _____ , 820, 760, 700, _____ , _____ , _____ ,

b) _____ , _____ , _____ , 700, 900, 1100, _____ , _____ , _____ ,

c) _____ , _____ , _____ , 560, 730, 900, _____ , _____ , _____ ,

d) _____ , _____ , _____ , 332, 318, 304, _____ , _____ , _____ ,

e) _____ , _____ , 287, _____ , 311, _____ , _____ , _____ , _____ ,

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?

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?

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?

5 Work out a rule and complete the table. *Rule*: . . . . . .

a	1	80	15	100	32	140	90		28	
b	4	2	20	0	4	580	200	200		
c	7	242	65	300				500	404	70

1

Solve the problems in your exercise book.

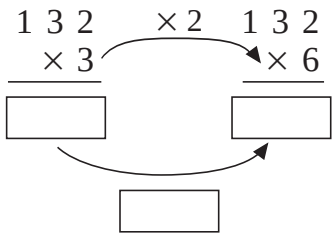
a) An athlete won a high jump competition with a jump of 236 cm.
A dolphin can leap out of the water and into the air to a height which is 374 cm above that reached by the high jumper.
How high can this dolphin jump?

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?

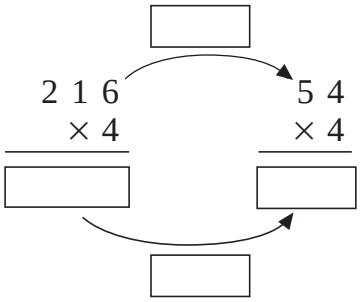
2

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

a)



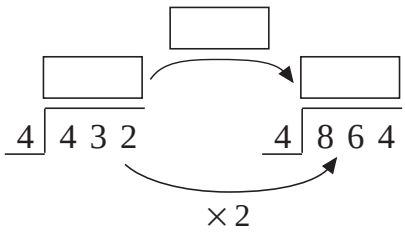
b)



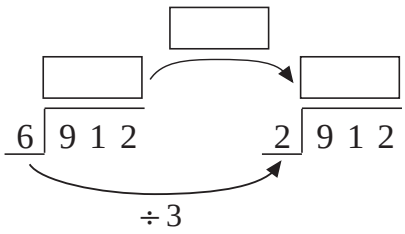
3

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:

a) twice as much money in one piggy bank as in the other?

b) half as much money in one piggy bank as in the other?

c) three times as much money in one piggy bank as in the other?

d) 1 third as much money in one piggy bank as in the other?

e) five times as much money in one piggy as in the other?

f) 1 fifth as much money in one piggy bank as in the other?

g) 1 seventh as much money in one piggy bank as in the other?

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. ☐

b) There is an even number which has 5 as its units digit. ☐

c) Every number which is divisible by 5 is a whole ten. ☐

d) 217 is divisible by neither 5 nor 2. ☐

e) Every number which is a whole ten is divisible by 2 and by 5. ☐

2

Write the answers in the number puzzle.

Horizontal clues

a Sum of 642 and 579

e Quotient of 642 divided by 6

f Difference between 642 and 579

g Sum of 423 and 217

i Product of 168 and 8

l Product of 125 and 5

m 125 divided by 5

n 513 divided by 3

o 375 divided by 5

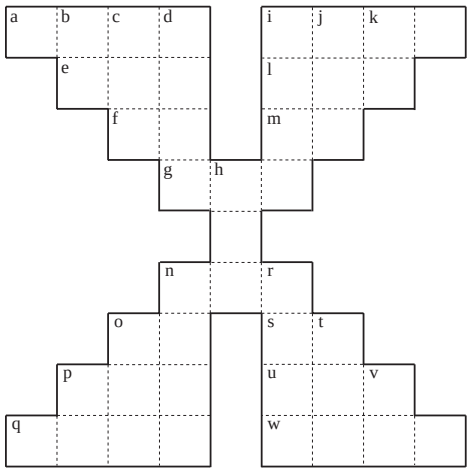
p Difference between 796 and 453

q Sum of 796 and 453

s Difference between 217 and 125

u Sum of 402 and 325

w Product of 375 and 5



Vertical clues

b Quotient of 168 divided by 8

c Difference between 423 and 217

d This number has factors 217 and 8

h Sum of 371 and 46

i Dividend if divisor is 6, quotient is 270

j Difference between 371 and 46

k 270 divided by 6

n Dividend if divisor is 3, quotient is 513

o Sum of 388 and 356

p 356 plus this number equals 388

r This number has factors 219 and 9

t This number minus 219 equals 9

v Subtrahend if difference is 325 and reductant is 402.

1 Continue the sequences.

a) 800, 400, 200, ...

b) 410, 520, 630, ...

c) 1, 4, 9, 16, ...

d) 800, 698, 596, ...

e) 5, 15, 10, 25, ...

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 ☐

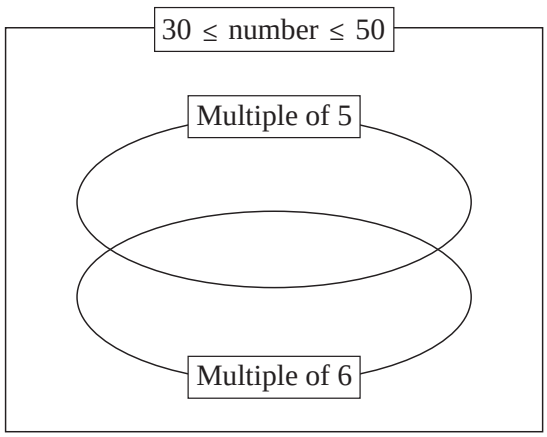
c) 59 days ☐ 8 weeks 3 days ☐

d) 182 mm ☐ 1 m 57 mm ☐

3 Work out the rule and complete the table. *Rule*: . . . . . .

a	1	80	25	21	12		9	31		
b	5	5	20	6	48	12				
c	10	405	145			52	64	170	100	

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 . . . . . ii) 2 and a half hours? . . . . . .

b) An athlete can run 100 m in 12 seconds. How far can the athlete run in

i) 6 seconds . . . . . ii) 1 minute? . . . . . .