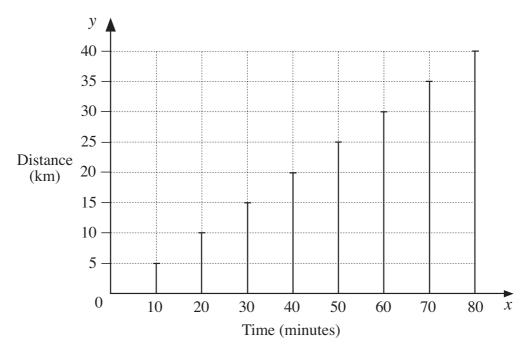
Alan went on a cycling tour. He kept a note of how far he had cycled every 10 minutes. He made this graph to show his data.

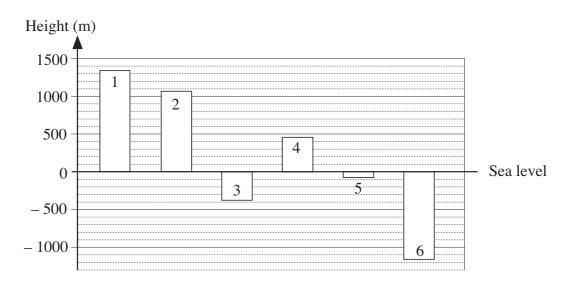


Use the graph to help you complete the table.

Time (minutes)	0	10	20	30	40	50	60	70	80
Distance (km)	0								

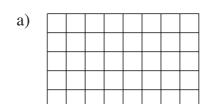
2

This graph shows the approximate height above sea level of famous places. Use the graph to help you fill in the missing numbers.

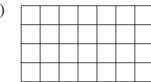


- 1. Ben Nevis
- ~ m
- 4. Hay Tor, Dartmoor ≈ m
- 2. Mount Snowdon ≈ m
- 5. Death Valley, USA ≈ m

- 3. The Dead Sea
- m
- 6. Straits of Gibraltar ≈ m



b)



What are the perimeter and area of each of these diagrams if:

i) the perimeter is measured in — units and the area in — units?

a)  $P = \square$  — units b)  $P = \square$ 

 $\Box$  units A =

b)  $P = \square$  — units

 $A = \square \square$  units

ii) the perimeter is measured in  $\longrightarrow$  units and the area in  $\longrightarrow$  units?

a)  $P = \bigsqcup$  units b) P =

A = units

b) P = units

A = units

Measure the sides of each rectangle in mm and write the lengths beside them. Calculate the perimeter of each rectangle in mm and write it inside the shape.

a

b

c

d

e

f

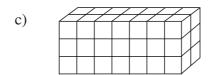
How many unit cubes does each of these cuboids contain? This is their **volume**.

a)

Volume = \_\_\_ unit cubes

b)

Volume = unit cubes

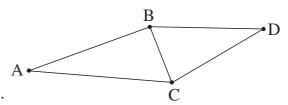


Volume = unit cubes

A, B, C and D are places on a map.

Scale:

1 mm on the map  $\rightarrow$  20 m in real life.



- a) Measure each line on the map in mm and write its length beside it.
- b) In how many ways can you get from A to D? What distance is each route?

Route	Distance on map	Distance in real life				
A	• • • • • • • • • • • • • • • • • • • •					
A						

2

•	132 × 🗀 :	=
122	122	1

Study the diagram. Fill in missing numbers.

132	132	k	132 ×	2 =	
132	132	132	<b>K</b>	132 ×	3 =
132	132	132	132		132 >

Do the calculations in your exercise books. Fill in the missing numbers.

c) 
$$174 \times 9 \text{ cl} + 135 \times 3 \text{ cl} = \boxed{\ell} \text{ ml}$$

4

What is the mass of:

- a) 8 tablespoons of flour if 1 tablespoon of flour weighs 15 g? ......
- b) 7 tablespoons of sugar if 1 tablespoon of sugar weighs 23 g? ......
- c) 4 tablespoons of salt if 1 tablespoon of salt weighs 28 g? .....
- d) 2 tablespoons of flour, 3 tablespoons of sugar and 4 tablespoons of salt?

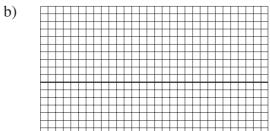
.....

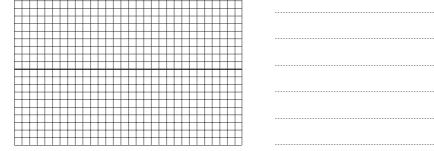
1	Wri	te each of these times in a different way. Follow the example.
	a)	13:45 = 1.45 pm b) 16:30 =
	c)	20:12 = d) 22:58 =
	e)	23:04 = f) 00:00 =
2	Hov	v many hours and minutes have passed from:
	a)	08:20 to 10:10 b) 07:45 to 09:15
	c)	10:42 to 14:10 d) 18:20 one day to 08:30 the next day?
3	Fill	in the missing numbers.
	a)	i) 7 hours = min ii) 15 hours = min
		iii) 4 hrs 45 min = min iv) 15 hrs 10 min = min
	b)	i) 68 min = h min ii) 75 min = h min
		iii) 135 min = h min iv) 301 min = h min
	c)	i) 10 wks 5 days = days ii) 25 wks 3 days = days
		iii) 50 wks 2 days = days ii) 52 wks 1 day = days
	d)	i) 3 min = seconds ii) 8 min = seconds
		iii) 5 min 15 sec = sec iv) 20 min 42 sec = sec
	e)	i) 121 sec = min sec ii) 250 sec = min sec
		iii) 372 sec = min sec iv) 360 sec = min sec
4	a)	If the taps are turned on full for 1 minute, 7 litres of water runs into the bath. How much water would have run into the bath after 2 hours?
	1. \	A continuousla 22 m in 1 consent. Here for her the
	b)	A car travels 22 m in 1 second. How far has the car gone after 1 minute?

-	

Write multiplications and divisions about the diagrams

a)





Write two divisions about each diagram.

- a) i) (1) (1) (1) (1)(1)(1)(1)
- (10)(10)(10)(10)(10)ii) (10)(10)(10)(10)(10)
- iii) (100)(100)(100)(100)(100) (100)(100)(100)(100)

- b) i) § § § § 55555
- ii)
- iii) (200)(200)(200)(200)

Do the divisions. Check them in your head with multiplications.

- a)  $18 \div 6 =$
- $180 \div 60 =$
- b)  $18 \div 9 = 180 \div 90 =$

- $180 \div 6 =$
- $1800 \div 60 =$
- $180 \div 9 = 1800 \div 90 =$

- $1800 \div 6 =$
- $1800 \div 600 =$
- $1800 \div 9 = 1800 \div 900 =$

- $54 \div 6 =$ c)
- $32 \div 8 = e$ d)
- $72 \div 9 =$
- f)  $56 \div 7 =$

- $540 \div 6 =$
- $320 \div 8 =$
- $720 \div 9 =$
- $560 \div 7 =$

- $540 \div 60 =$
- $320 \div 80 =$
- $720 \div 90 =$
- $560 \div 70 =$

Divide the amount into 4 equal parts.

- 100 100 100 100 100 100 100 | 100 |
- (10)

Write these numbers in the correct number set.

0, 5, 8, 9, 12, 16, 17, 27, 40, 44, 45, 72, 80, 81, 90, 96

b)

a) Divisible by 8 Not divisible by 8

Multiples of 9	Not multiples of 9

2

Write these numbers in the correct number set.

3, 9, 8, 1, 36, 12, 4, 6, 18,

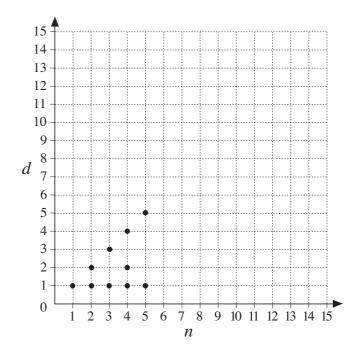
11, 2, 5, 10, 53, 72, 0

Divisor of 36	Not a divisor of 36

3

What is the rule? Complete the table and the graph.

n	d
1	1
2	1, 2
3	1, 3
4	1, 2, 4
5	1, 5
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	



4

Circle the number which you think is the odd one out. Give a reason.



b) 553, 690, 885, 730, 560, 355 ......

Do the divisions. Check them in your head with multiplications.

- a)  $189 \div 9 =$
- b)  $126 \div 3 =$
- c)  $168 \div 8 =$
- d)  $155 \div 5 =$

$$1890 \div 9 =$$

$$1260 \div 3 =$$

$$1680 \div 8 =$$

$$1550 \div 5 =$$

2

Circle the numbers in this list which are divisible by 3. a)



0, 7, 9, 60, 67, 69, 1500, 1568, 1569

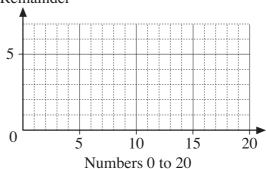
Circle the numbers in this list which are multiples of 4. b)

3

Write the whole numbers from 0 to 20 in the correct column in the table. Draw dots in the graph to show the remainders.

Remainder after dividing by 7							
0	1	2	3	4	5	6	

Remainder

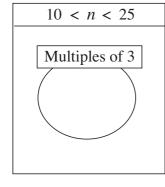


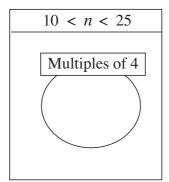
Are these statements true? Write a ✓ if it is true and a X if it is false.

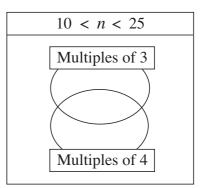
- If we divide a number by 7, the remainder is less than 7. a)
- If we divide a number by 7, the remainder can be 7. b)
- If the remainder is 0 after dividing by 7, the number is a multiple of 7. c)
  - If we divide a number by 7, then 7 different remainders are possible.

d)

Write the whole numbers between 10 and 25 in the correct number sets.







Peter, Rob and Sally have the same amount of money in their bank accounts. Altogether, they have £969. Draw around the money each of them has. 100 100 100 100 100 100 100 100 100 10 10 10 10 10 10  $\textcircled{1} \ \textcircled{1} \ \textcircled{1}$ Complete the calculation.  $969 \div 3 = 900 \div 3 + 60 \div 3 + 9 \div 3 =$ 2 Fill in the missing numbers. a)  $630 \div 3 = | | | \div 3 + 30 \div 3 = |$ b)  $650 \div 5 = 500 \div 5 +$  $\div 5 =$  $768 \div 4 = 400 \div 4 +$  $\div 4 + 8 \div 4$  $840 \div 6 = 600 \div 6 +$  $\div 6 =$ c)  $459 \div 3 = 300 \div 3 +$  $\div 3 + 9 \div 3$  $\div 7 + 210 \div 7 =$  $910 \div 7 =$ d)  $960 \div 8 =$  $\div 8 + 160 \div 8 =$ 

Fill in the missing numbers.

b) 
$$824 \div 4 = \boxed{}$$

1	Colour: • the $\triangle$ blue if the number is divisible by 3.									
	• the	e 🔾	red if	f the n	umbei	is div	isible	by 6.		
	• the	e 🗌	yello	w if th	e num	ber is	divisi	ble by	9.	
	$\begin{array}{c c} & & & \\ \hline & & \\ \hline & & \\ \hline \end{array}$	\( \) \( \)	\( \) \( \)	8 (2		4) (2	7) (30		3) (30	39 (44)
2	In a flower shop, the	ne rose	es wer	e tied	in bur	nches	of 3. (	Comp	lete th	e table.
	Number of		264			45	3	60 5	531	
	Number of			27	49					69   54
3	A container was fu How much water v				_			•	oured	out.
	a) 16 litres									
	16 litres {	? litre	Cai	lculati	on: .					
	b) 304 litres									
	304 litres	? litre	Cal	lculati	on: .					
	c) 1576 litres?									
	1576 litres {	} ? litr	Cal	lculati	on: .					
4	Share the amount e	equally	y amo	ng the	group	os of p	eople.	Com	plete	the table.
	Total amount	501	374	895	764					Dividend
	Number of people	5	3	7	4	6	9	8	2	Divisor
	Amount each	100				128	110	123	376	Quotient

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5

0

Remainder

Amount remaining

1	(a)	£100. He could change his money exactly into £2 coins or £5 notes.	
	b)	How many pupils can be in this class? There are less than 30 pupils. The pupils can sit in groups of 2 or 3 or 4 without any pupil being left out.	
2	Is it	possible to answer the question with the data given? If it is, solve it.	
	a)	10 kg of bananas costs £9.40. What is the price of 1 kg of bananas?	
	b)	Steve bought 10 different bars of chocolate and paid £12.00 altogether. What was the price of 1 bar of chocolate?	
	c)	Karen is 9 years old. She weighs 27 kg. What did she weigh when she was 1 year old?	
	d)	3 men worked steadily and painted a 540 m fence in 9 days. How many days would it have taken 1 man to paint the same fence?	
3	Writ	te the data. Make a plan. Estimate, calculate, check and write the answer.	
	a) ]	A spider has 8 legs. How many spiders have 864 legs?	
		Data: 1 spider: 8 legs, Plan:	
		? spiders: 864 legs Estimate:	
		Calculation:	
		Answer:	
	b)	A flower has 5 petals. How many flowers have 685 petals in total?	
		Data:	
	89	Estimate:	
	X	Calculation:	
		Answer:	

_

I have 3 bags of marbles. Bag A contains 10 marbles, Bag B contains 20 marbles and Bag C contains 30 marbles. One marble in each bag is *red*.

- a) Join up each statement to the correct label.
  - i) If I take out 1 marble from Bag A with my eyes shut, it will be *red*.

Certain

ii) If I take out 20 marbles from Bag B with my eyes shut, none will be *red*.

Possible but not certain

iii) If I take out 2 marbles from each bag with my eyes shut, one will be *blue*.

**Impossible** 

b) Which bag gives me the best chance of picking the *red* marble? .....

2

- a) Toss a £1coin and a £2 coin at the same time. Do this 15 times.
  - i) Keep a note of how each coin lands in this table. Total each row.
  - ii) Collect and write the Class data in the right hand column.

							1	Coss	es								Pupil Total	Class
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Total
£1	Head																	
21	Tail																	
£2	Head																	
22	Tail																	
												Taran	hor	of	tone			

Number of tosses

b) £1 £2 Total Class
Total

Head and Head

Head and Tail

Tail and Head

Tail and Tail

Number of tosses

- i) Write your own data in this table.
- ii) Collect and write the Class data in the right hand column.



You asked for a 2-scoop ice-cream, saying, "Chocolate or strawberry please". Colour the ice-creams to show what you could be given.









Throw a dice 20 times. Keep a tally in the table. Write the total for each row. Collect the Class data and write them in the right hand column.

	Tally of 20 throws	Pupil Totals	Class Totals
•			
•			
••			
• •			
•••			

- a) How many times would you expect to throw a 4 if you threw a dice
  - i) 600 times . . . . . . ii) 1200 times? . . . . . . . . .
- b) What would be the probability of throwing
  - i) a 6 ..... ii) at least 5 .....
  - iii) an even number? .....

2

Throw two dice at the same time 36 times. Keep a tally in these tables.

	?			?	
1	1		2	1	
1	2		2	2	
1	3		2	3	
1	4		2	4	
1	5		2	5	
1	6		2	6	

	?	
3	1	
3 3	2	
3	3	
3	4	
3	5	
3	6	

	?	
4	1	
4	2	
4	3	
4	4	
4	5	
4	6	

	?	
5	1	
5	3	
5	3	
5	4	
5	5	
5	6	

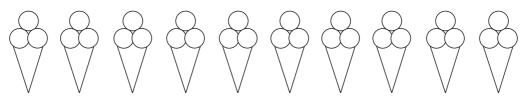
	?	
6	1	
6	2	
6	3	
6	4	
6	5	
6	6	

Collect the Class data. Rub out your tally marks and write the Class data in the tables. Use the Class data to complete this table.

Sum of both dice	1	2	3	4	5	6	7	8	9	10	11	12	13
Number of cases													

3

How could a 3-scoop ice-cream be made from vanilla or strawberry or lemon?



1	Wri	te these numbers as Roman numerals. Follow the example.
	a)	$743 = (500 + 200) + (50 - 10) + 3 = DCC + XL + III = \dots$
	b)	287 =
	c)	934 =
	d)	1099 =
2	a)	Change the Roman numerals to Arabic numbers.  DIX =
	b)	Write the Arabic numbers in decreasing order.
	c)	Subtract the 5th number from the 3rd number. Write the difference as Roman numerals.
	d)	Divide the 2nd number by 11. Write the quotient as Roman numerals.
3	Abo	ove the entrance to a church, there is a Roman number:  MDCCXCI
	a)	When do you think the church was built?
	b)	What Roman number is on the crypt if it was built 153 years before the main church?
4	a)	What rule has been used to make these secret codes?  CILLA → 201 Rule:
		SHEILA $\rightarrow$ 51 EXAMPLE $\rightarrow$ 1060 IVANHOE $\rightarrow$ 6 MUM $\rightarrow$ 2000
	b)	Use the rule to find the secret numbers and the missing signs. $(<,=,>)$
		i) ELEPHANT $\rightarrow$ ii) BALL $\bigcirc$ BALI CROCODILE $\rightarrow$ CAT $\bigcirc$ PACK CADILLAC $\rightarrow$ PEN $\bigcirc$ PIN
	c)	Use the rule to write a secret code for 2101

Correct the equation
----------------------

VII + V = III b) a)

XII + III = X c) XI + XXX = X

Join up the equal values.



428

**DCLIV** 

936

1042 654

**MXLII** 

CDXXVIII

Do the calculations. Write the operations using Roman numerals.

**CMXXXVI** 

a)		1	2	7
	+	3	4	8

b)		6	7	1
	_	5	5	8

c)	2	3	5
		×	3

a) Which Roman numerals could be written instead of the shapes to make the statements true?

i)	CDLXXIX	<		<	CDLXXXIII			:					•		•				
----	---------	---	--	---	-----------	--	--	---	--	--	--	--	---	--	---	--	--	--	--

Correct the equations. b)

i) 
$$VII - II = II$$
 ii)  $XII + VIII = X$  iii)  $V - XV = X + 1$ 

1	Mak	e a plai	n. Do the calcu	lation, check	x it and write th	e answer in a	sentence.					
	a)	Tim h	as £648, 6 time	s the amoun	t Laura has. Ho	ow much doe	s Laura have?					
		Plan:		(	Calculation:							
		Check	:									
				F	Answer:							
	b)	Gordo	Gordon has £648. Lenny has twice as much. How much does Lenny have?									
		Plan:			Calculation:							
		Check	•									
				A	Answer:							
2	Wha	nt data a	are needed? Ma	ake a plan. (	Calculate, check	and write th	e answer.					
	a)	•	•	_	on a 42-seater er. How much		xet?					
		Plan:			Calculation:							
	Check:											
				Answe	r:							
	b)	full of		d a 4 litre an	and a 5 litre bucket to transfer the water s did he make?							
		Plan:			Calculation:							
		Check	:									
				Answe	r:	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •					
3	Wha	nt was tl	he balance each	a day? (Do t	he calculations	in your exerc	eise book.)					
_		Mo	onday	Tu	esday	Wed	lnesday					
	In	come	Outgoings	Income	Outgoings	Income	Outgoings					
	£	23.56	£2.18	£1.05	£3.46	£6.56	_					
	Bala	ance:		Balance:		Balance:						
		Thi	ursday	Fr	iday	Satu	ırday					
	In	come	Outgoings	Income	Outgoings	Income	Outgoings					
	£	21.43	£3.25	£7.25	£1.03	_	£5.23					
	£	25.18	£1.89	£9.48	£4.28		£2.18					
	Rale	ance:		Ralance		Ralance:						

1	How m	uch money doe	es Alar	have?	Com	plete t	he tabl	e.			
		Had (p)	128	556	436		216		405		
		Was given (p)	342	223	578	329		149		_	
		Now has (p)				674	971	583	752		
		N =		H =			W =				
2		nd Penny have ch have? Com		_		heir ba	ınk acc	ounts.	How	much can	
	S (£	321		276	187			639	0		
	$\overline{P}$ (£		138			456	223			752	
		754 =		S =	=		F	P =			
3	b) A le c) Ev	im has 4 times ow much do the  ndrea had £6.42 ft is 1 third of t  ve had £5.64. S low much did sh	ey hav  2. She he mo  She bo	e altog bough ney he ught so	ether?   It some r sister   ome sw	e flower has.	ers for f How m	£2.35. auch do	The nes her	noney she has sister have?	
4	What is 4 ticket 7 ticket			if 4 tio							
5	Calcula a)	te the balance.		b) (	10 (10)	- 10 - 1 0 - 10	_	c) [	(10) (1	0 -10 10	

(10) -10 -10

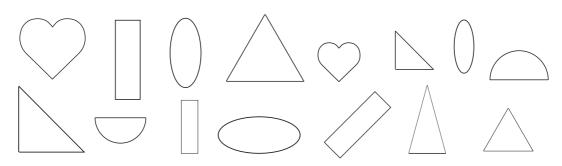
<u>-10</u> <u>-10</u> <u>10</u>

<u>−1</u> <u>−1</u>

- 1

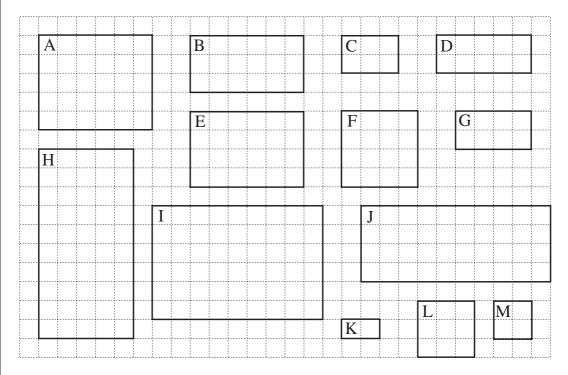
- 1

Colour **similar** shapes in the same colour.



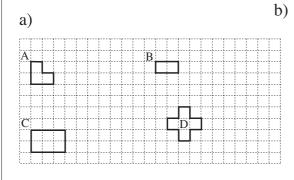
2

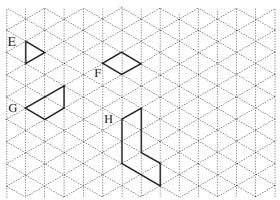
Colour similar rectangles in the same colour.



3

Enlarge each shape to twice its size.



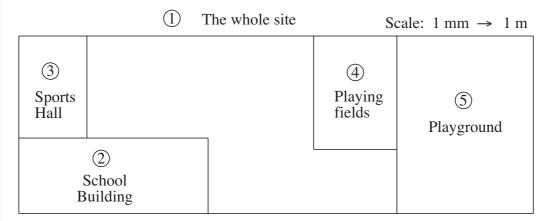


4

Lengthen this line to 3 times its length.

1	Join up the shapes which are <b>congruent</b> . (exactly the same)

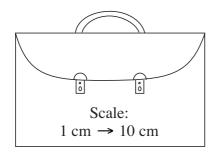
This is a plan of a school. Measure each side of the rectangles in the plan.



Calculate the lengths in real life. Write both sets of data in the table.

Recta	angle	1	2	3	4	(5)
On plan:	Length (mm)					
	Width (mm)					
In real life:	Length (m)					
	Width (m)					

This is an enlarged drawing of *Flea*'s briefcase. Measure its sides, then calculate what they would be in real life. Write both sets of data in the table.



On plan:	Length (cm)	
	Height (cm)	
In real life:	Length (cm)	
	Height (cm)	

_	
_	

**A** is a common **vertex** (corner) of 4 similar shapes.

a) How many times has the smallest shape been enlarged to make the others?

... times, ... times, ... times

What are their perimeters in  $\vdash$  units? b)

 $P_1 = 8 \text{ units}$ 

$P_2 =$	units

$$P_3 =$$
 units  $P_4 =$  units



 $A_2 =$  squares,  $A_3 =$  squares,  $A_4 =$ 

$$A_3 =$$
 squares,

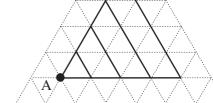




**A** is a common vertex of 4 similar triangles.

How many times has the smallest triangle a) been enlarged to make the others?

... times, ... times



What are their perimeters in  $\vdash$  units?

$$P_1 = 3 \text{ units}$$

$$P_2 =$$
 units

$$P_3 =$$
 units  $P_4 =$  units

$$P_{\perp} =$$
 units

What are their areas in  $\bigwedge$  units?  $A_1 = 1$  triangle,

$$A_2 =$$
 tr

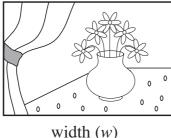
$$A_2 =$$
 triangles,  $A_3 =$  triangles,  $A_4 =$ 

triangles



This is a reduced photocopy of a painting. Scale:  $10 \text{ mm} \rightarrow 20 \text{ cm}$  in real life.

height (*h*)



Measure the sides of the photocopy. a)

 $w_1 = \ldots mm, h_1 = \ldots mm$ 

b) Calculate the sides of the painting.

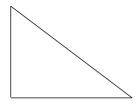
 $w_2 = \ldots cm, h_2 = \ldots cm$ 

What length of wood would be needed to make a frame for the painting? c)

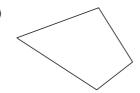
What area of glass would be needed to cover the painting? d)

Measure the sides of the triangle, quadrilateral and pentagon. Write the lengths on the diagrams.

a)



b)



c)



Measure and mark the sides on the horizontal lines.

a)

P	=	

mm =



mm

b)

$$P =$$

mm =





c)

$$P =$$

mm =



mm

2

Count how many of the given units are in the perimeter and area of each shape.

a)



b)







$$P = \dots \mapsto P = \dots \mapsto P = \dots \mapsto$$

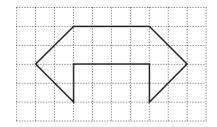
$$A = \Box$$

$$P = \dots \mapsto$$

$$A = \dots \square$$
  $A = \dots \square$   $A = \dots \square$ 

Divide up each shape into rectangles and triangles. Write the area of each smaller shape inside it. Write the total area of each shape in the box.

a)

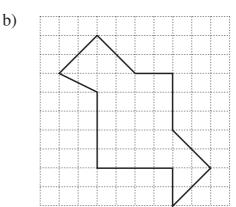


a)

unit squares

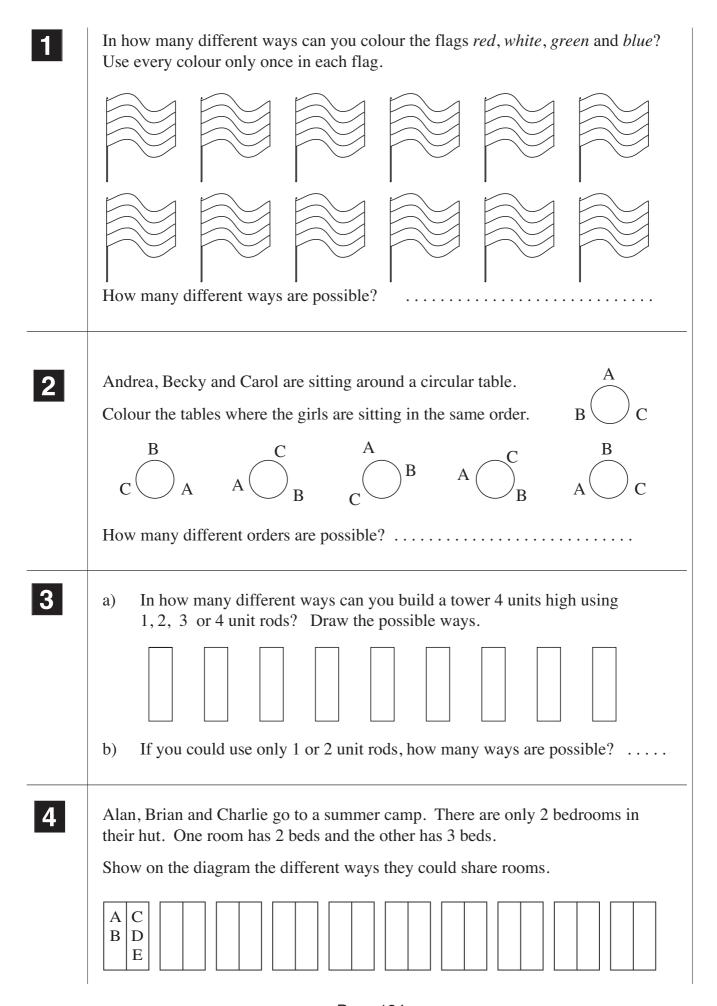
$$A =$$

unit squares



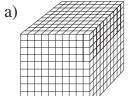
This solid has been built from unit cubes. Draw different views of it. Right side view Top view Ground plan Front view 1 2 1 Build the solids with unit cubes. Fill in the ground plan for each one. a) b) c) How many unit cubes were needed to build each solid? This is their **volume**. a) b) ..... c) a) Reduce this cuboid to: i) half its size ii) 1 third of its size. Enlarge this cuboid to: i) twice its size ii) 3 times its size. b)

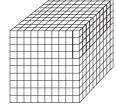
c) What is the volume of each of the 6 cuboids? Write it beside them.

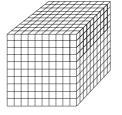


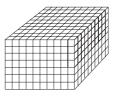
a) Colour the windmills <i>red</i> , <i>white</i> , <i>yellow</i> and <i>green</i> so that each one is different from the others.					
Mr. Silly does not know his compass directions. He paints the letters N, E, S and W on the compass at random. What chance does he have of painting the compass correctly?					
Write the letters E, I, F and L in every possible order. Circle meaningful words.					
EIFL IEFL FEIL LEIF EILF IELF					
f a computer printed the 4 letters randomly, what chance yould there be of it printing a meaningful word?					
Iow many different faces can you draw if you choose from these features?  Eyes: ○○ or ○○ Nose: ∠ or △ Mouth: ○ or ○ or ─					
Eyes. 55 of 55 Nose. 2 of 2 Mouth. 5 of 7 of —					
f a machine painted features on 120 faces at random, ow many faces would you expect to be smiling?					
Andrew, Betty, Cliff and Dorothy went sledging with one 2-seater sledge. how the different ways they can take turns on the sledge.					
AB AC					
f ·					

Which numbers do the pictures show? Write them in the place-value table.





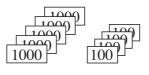




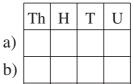
c)



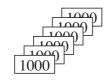
b)







c)



100

Write the digits in the place-value table,

then write the number.					
		Н	Т	U	Number
2 thousands + 6 hundreds + 3 tens + 8 units					
7 thousands + 3 hundreds + 5 units					
$6 \times 1000 + 3 \times 100 + 9 \times 10 + 7 \times 1$					
$4 \times 1000 + 0 \times 100 + 6 \times 10 + 4 \times 1$					
8000 + 500 + 40 + 9					
9000 + 50 + 4					

3

Practise calculation.

a) 
$$4 + 5 =$$

$$9 - 2 =$$

$$90 - 20 =$$

$$900 - 200 =$$

$$9000 - 2000 =$$

b) 
$$3 \times 8 =$$

$$3 \times 80 =$$

$$3 \times 800 =$$

$$6 \times 9 =$$

$$6 \times 90 =$$

$$6 \times 900 =$$

$$7 \times 4 =$$

$$70 \times 4 =$$

$$700 \times 4 =$$

c) 
$$45 \div 5 =$$

$$450 \div 5 =$$

$$4500 \div 5 =$$

$$56 \div 7 =$$

$$560 \div 7 =$$

$$5600 \div 7 =$$

$$27 \div 3 =$$

$$270 \div 3 =$$

$$2700 \div 3 =$$

1	Fill	in the missing numbers.
	a)	i) $1 \text{ km} =  \text{m} $ ii) $1 \text{ km} 564 \text{ m} =  \text{m}$
		iii) $2 \text{ km} =  \text{m} \text{ iv)} 4 \text{ km} 105 \text{ m} =  \text{m}$
		v) $7 \text{ km} =  \text{m} \text{ vi)} 8 \text{ km } 16 \text{ m} =  \text{m}$
	b)	i) $1 \text{ m} = $ mm ii) $1 \text{ m} 45 \text{ cm} = $ cm $$ mm
		iii) $5 \text{ m} = $ mm iv) $3 \text{ m} 70 \text{ cm} 2 \text{ mm} = $ mm
		v) 8 m = mm vi) 5 m 6 cm 3 mm = mm
2	Cha	ange the weights to the given units.
	a)	1028 g =   g   g   b)   1 kg 26 g =   g
		2300 g =   g
		3005 g =   g
		416 g =   g   g   g   g   g   g   g   g
3	Cha	inge the capacities to the given units.
	a)	75  cl =  ml b) $736  ml = $ cl ml
		138  cl =
		205  cl =
		$3 \ell 26 \text{ cl} = $ ml $4342 \text{ ml} = $ cl $\text{ml}$
4	Wha	at is the capacity of the container if we could fill it with:
	a)	forty 65 cl jugs of water
	b)	sixteen 8 litre buckets of water
	c)	six hundred and forty 5 cl glasses?
5	Tick	the bigger quantity. a) 3 quarters of 240 cm or 5 sixths of 240 cm

b)

c)

5 eighths of 1600 g

3 sixths of 3000  $\ell$ 

1 half of 1600 g

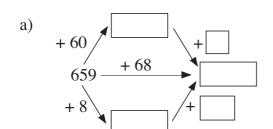
3 fifths of 3000  $\,\ell$ 

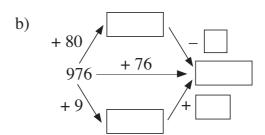
or

or

1	Write the whole numbers not less than 0 and not greater than 24 in the correct sets.						
	a)		b) _				
		$0 \le \text{number} \le 24$		Multiple	Not a multiple		
		M 1: 1 62		of 3	a multiple of 3		
		Multiple of 3	ole				
			Multiple of 4				
			<u>le</u>				
			ot Iltip f 4				
		Multiple of 4	Not a multiple of 4				
	VV/1-	ot one way one object the growthous	الموام والموا	المحمدة المحا			
	VV II	at can you say about the numbers	in the shad	ied areas?			
2	a)	List the numbers which have a l		~ ~	_		
		less than 3, and a units digit wh	ich is odd a	and not grea	ter than 3.		
	b)	What is their sum?					
	U)	What is their sain.					
	c)	Which of them are divisible by	3?				
3	List	all the 3-digit numbers in which:					
	a)	the sum of the 3 digits is 5,					
	b)	the product of the 3 digits is 4,					
			• • • • • • •				
	c)	the sum of the 3 digits is 4.					
	<b>1</b> / 1	ratura 2 diait manda di di	1	1 2 4 5	nd 0 aa 414.		
4	Mai	ke two 3-digit numbers using the	numbers 0	, 1, 3, 4, 3 8	ind 8 so that:		
	a)	their sum is the least possible,			and		
	1-)	their owns is the supertact massible	_				
	b)	their sum is the greatest possible	Ξ,		and		
	c)	their difference is the least poss	ible,		and		
	4)	their difference is the greatest re	necibla		and and		
	d)	their difference is the greatest pe	ossible.		and		

Fill in the missing numbers.

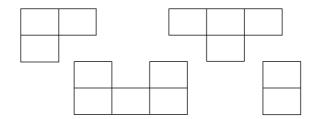




2

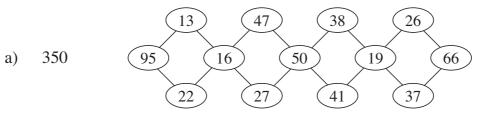
Colour the shapes on the grid and fill in the missing numbers if the sum of the numbers in each shape is 1000.

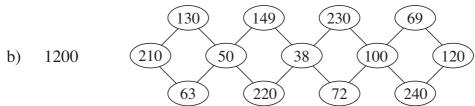
400	290	350	170	280	170
310	260	510	200	430	420
440	270	930	100	120	580
350	140	230	260	280	390



3

Colour a route through the maze so that the sum of the numbers passed is:





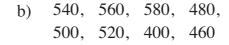
4

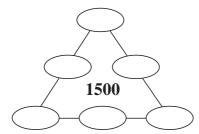
How many routes lead from A to G, H, I and J if you can only move down to the left or to the right? Write the letters of each route in order.

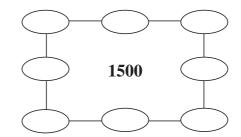


Write the missing numbers in the puzzles if the sum of the 3 numbers along each side is 1500. Choose from the set of numbers below. Use each number only once.

420, 400, 520, a) 540, 560, 580

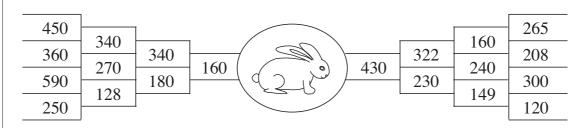






2

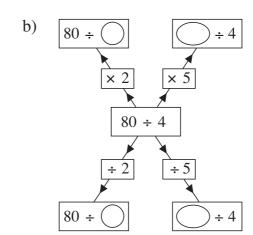
Bunny can only escape from the maze by passing through numbers which add up to 1200. Draw possible paths he could take. Use a different colour for each one.



3

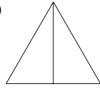
Fill in the missing numbers.

a) 90 x  $90 \times 4$ 



How many triangles can you see in each diagram?

a)



90 ×

b)



c)

