Non-calculator skills

Functional skills maths L1

This booklet contains practice for the for the non-calculator section of the final exam.

This section is worth 15 marks in the final exam you will have 25minutes to complete it.

Non calculator skills make up 25% of the final assessment



Skills checklist			
Complete this checklist as you work through the book, record areas for in	mpro	vemen	ıt
Target	R	Α	G
Read, write, order and compare large numbers up to one million			
Approximate whole numbers by rounding, including to the nearest			
10,100,1000			
Approximate decimals by rounding to a whole number or one or two			
decimal places			
Add and subtract using three digit whole numbers			
Add and subtract negative numbers			
Multiply and divide whole numbers and decimals by 10,100,1000			
Multiply 2-digit whole numbers by single and 2 digit whole numbers			
Calculate square numbers			
Divide 3-digit whole numbers by single and double digit whole numbers			
Use Bodmas to solve problems			
Add subtract multiply and divide decimals up to 2 decimal places			
Simplify fractions to find equivalent forms			
Find parts of whole number quantities or measurements, e.g. 2/3 or 3/4			
Convert mixed fractions			
Recognise and calculate equivalences between common fractions,			
percentages and decimals			
Add and subtract fractions			
Calculate percentages of amounts and simple percentage increase and			
decrease			
Calculate direct proportion			
Calculate mean and range			
Express the likelihood of an event using fractions, and on a scale of 0 to 1			
Calculate area and perimeter and volume			
Recognise and make use of simple scales on maps and drawings			
Calculate angles			
Convert between units of length, weight, capacity, in the same system			
Perform calculations with time			
Nets			
Plans and elevation			

Read, write, order and compare large numbers up to one million

Fill in the place value chart the first one has been done for you

	Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Units
816 958		8	1	6	9	5	8
1 254 958							
91 806							
3 048 787							
958 656							
1 362 055							

Can you write the largest number in words?

Read, write, order and compare large numbers up to one million

Compare these numbers using the symbols <>

- 1) 4,322 __ 5,322
- 2) 211 __ 4,210
- 3) 32,242 __ 6,223
- 4) 82,432 __ 34,223
- 5) 111,111 __ 123,123
- 6) 53,234 __ 3,123

Milly has compared the numbers below.

2,343 < 34,567

Is she correct or incorrect? Explain your answer.

Place these numbers in ascending order:

2,321 64,232 3,216 22,231 655,221 34 38,211

Peter says he can order the following numbers by only looking at the first 3 digits. Is he correct?

Can you explain what he has done wrong?

125381, 125362, 126743, 12582, 127942

Nasreen has made some five digit numbers, using the digits 1, 2, 3 and 4

She has changed each number into a letter. Use the clues to work out her numbers:

Her numbers are:

1) aabdc 2) acdbc 3) dcaba 4) cdadc 5) bdaab

Number 1 is the highest number

The digits in number 4 total 12

Number 3 is the smallest number

hallene

Approximate whole numbers by rounding, including to the nearest 10, 100, 1000 to find the punchline to this joke:

What kind of snake does a maths teacher own?

Α	В	С	D	E	F	G	Н	1	J	K	L	М
300	40	540	390	700	3	90	400	6000	300000	400000	410	3000
N	0	Р	Q	R	S	Т	U	V	W	X	Υ	Z
0	30	560	600	400	580	8000	30	7600	4000	8100	300	10

	Round	Round	Round	Round	Round	Round	Round
	296 to the	555 to the	6499 to	7500 to	351	34 to the	3
	nearest	nearest	the	the	to the	nearest	to the
	100	10	nearest	nearest	nearest	10	nearest
			1000	1000	100		10
Answer							
Letter							

Round these numbers to the nearest:

<u>10</u>
1) 873
2) 1390
3) 1772
4) 1428
5)1,016,428
6) 18, 1364
7) 3045
8) 3, 867,909

<u>100</u>
9) 19, 592
10) 62, 747
11) 20, 800
12) 76, 407
13) 9068
14) 4438
15) 42, 155
16) 79, 939

<u>1000</u>
17) 25, 236
18) 23, 589
19) 78, 376
20) 29, 500
21) 35, 5209
22) 1, 457, 789
23) 2, 456, 109
24) 7, 509, 999

Approximate decimals by rounding to a whole number, 1 or 2 decimal places

Draw a line to match the decimals to the nearest 1 or 2 decimal places					
1.4598	9.79				
9.7854	1.45				
9.75328	1.46				
1.45489	9.7				
17.8949	17.89				
17.9499	17.9				

3 athletes are competing in an athletics event. The winner is recorded by rounding each time or distance to the nearest whole number.

Find the winner in each round

Jave	elin	Rounded	Long jum	_	Rounded		200m race	Rounded
Paul	14.8m		Paul	7.4m		Paul	35.8s	
John	15.51m		John	8.1m		John	35.4s	
Мо	14.4m		Мо	9.3m		Мо	36.62s	
Winner:			Winner			Winner		

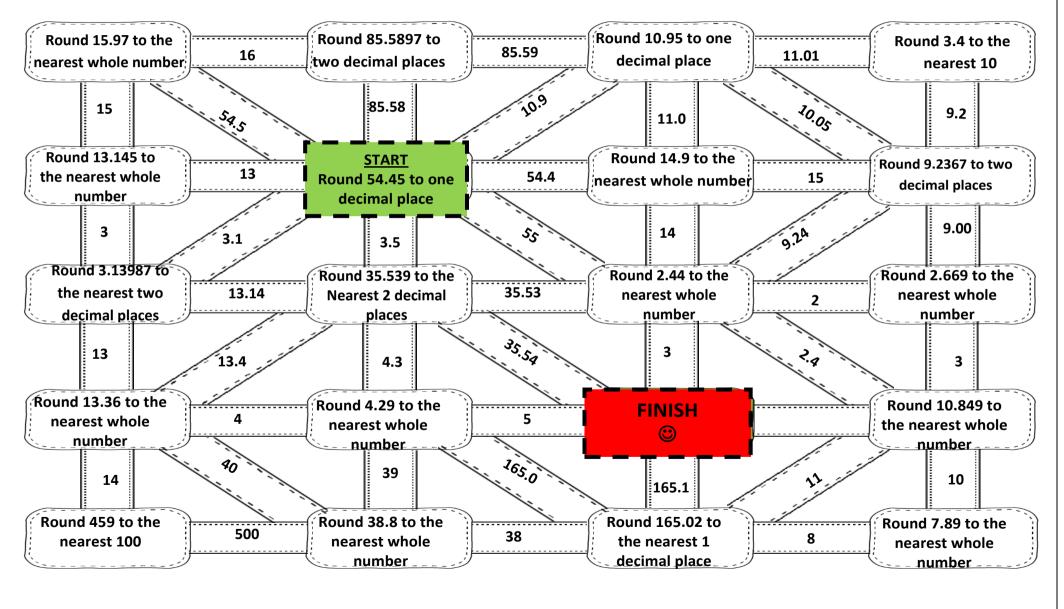
High	n jump	Rounded		100m race	Rounded
Paul	178.6cm		Paul	15.49s	
John	128.2cm		John	15.01s	
Мо	178.49cm		Мо	15.52s	
Winner			Winner		



The overall winner of the gold medal is the person who has won the most rounds.

Who wins the medal?

Answer the question on the start square. The answer will be in one of the pathways attached to It.! Work your way around the maze until you get to the end.



Add using three digit whole numbers

+323	+ 607	+ 507	+ 319
+518	+ 228	+ 463	+ 142
257	+ 505	+ 672	591
+ 706	+ 109	+ 243	+ 367
+ 572 + 336 ——	760 + 615	+ 822 + 345	912 + ₄₆₁

Word problems

- 1) There are 111 pencils in the drawer. Tim placed 130 more pencils in the drawer. How many pencils are now there in total?
- 2) Benny picked 118 oranges and Fred picked 109 oranges. Mary picked 134 pears. How many oranges were picked in total?
- 3) Nancy and her children were collecting seashells, Nancy found 649 seashells. She gave Tom 496 of the seashells. Mary collected 235 shells and Rob collected 123. How many seashells were collected altogether?
- 4) Mary had £723 in her bank. Her wages of £449 got paid in. How much does she have now?
- 5) Keith had 697 baseball cards, and 6 were torn. Alyssa gave Keith 486 of Keith's baseball cards. How many baseball cards does Keith have now?

Subtract using three digit whole numbers

451	840	472	481
- 218	- 525	- 238	- 323
_ 690	- 726	- 427	_ 519
_ 526	- 419	- 233	_ 450
_ 353	_ 627	- 622	_ 951
136	258	- 394	_ 652

Challenge

Add and subtract negative numbers

Use the rules of negative numbers to solve the code:

a	b	С	d	е	f	g	h	į	j	k		m	n	0	p	q	r	S	t	u	^	W	X	У	Z
-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Sum	-2 + 5	4 - 8	-3 + 13	-2 x -5	-6 + 17	6 - 7	-2- 6	-1 +6	10 + 7	-1 -3	0 + 9	-6 +12
Answer												
Letter												

What is a	a negative num	iber?					
•••••	•••••	/	 •••	•••••	/	 	•••••

Add and subtract negative numbers

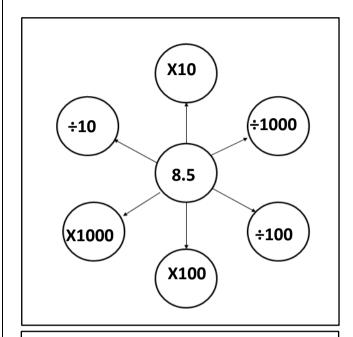
- a) The temperature on Tuesday is 5°C. On Wednesday it is 6 degrees colder. What is the temperature on Wednesday?
- b) The temperature on Friday is -7°C. The following the day, the temperature rises by 9 degrees.

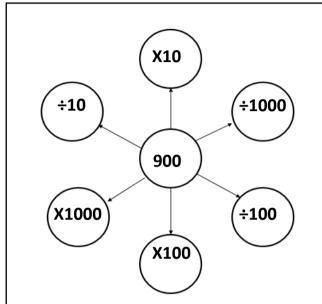
What is the temperature the following day?

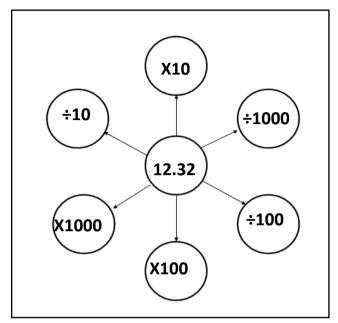
- c) The temperature in London is -5°C. In Birmingham it is -8°C. What is the difference between the 2 temperatures?
- d) What is 7 minus 11?
- e) How many degrees more is 2°C than -2°C?
- f) Increase -3 by 6.
- g) What is 3 minus 10?
- h) The temperature on Sunday is 4°C. The following day it drops by 11°C.

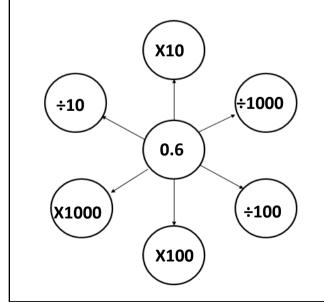
 What is the temperature on the following day?
- i) The temperature is -9°C. If it is 8°C warmer on the following day, what will the temperature be?
- *j)* The temperature is -6°C. The following day it is 9 degrees warmer. What is the temperature on the following day?

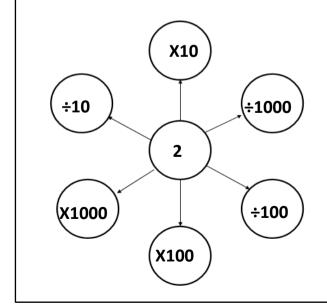
Multiply and divide whole numbers and decimals by 10, 100, 1000

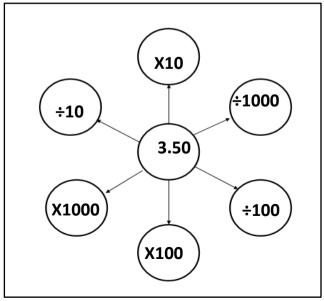












Multiply and divide whole numbers and decimals by 10, 100, 1000

the table

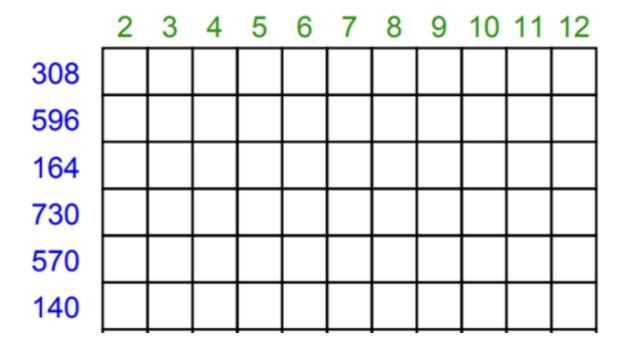
Multiply 2 digit whole numbers by single and 2 digit whole numbers

Calculate square numbers

Square the following numbers:	Finding the square root
1) 2	Which numbers multiplied by
2) 11	themselves give the following answers?
3) 4	1) 1
4) 8	2) 4
5) 7	3) 9
6) 12	4) 100
7) 9	5) 25
8) 7	6) 121
	7) 36
9) 6	8) 64
10) 30	9)144
Find the area of the following square	9m
6m	12m 5m
<i>i</i> 1111	

Divide 3 digit whole numbers by single and double digit whole numbers

Is the Number to the left of each row divisible by the Number at top of each column? Write Y (YES) or N (NO) in each box.



Space for working		

Use Bodmas to solve problems

Introduction to the murder

Ant and Dec couldn't believe what they had discovered! The secret they had just learnt about a certain celebrity's private life was unbelievable. They just had to make it public knowledge – it was just too juicy to keep to themselves.

They confronted the celeb but were warned to keep their big mouths shut!

But the celebrity decided they couldn't take any chances... Later that week, Ant and Dec were found poisoned in their dressing room.

When police arrived on the scene, they found 6 celebrities lurking around, but who is the guilty one?

Clue 1: Does their alibi check out?

All the suspects have an alibi. They claim they were teaching children how to use BODMAS. Ned gave each suspect a sum to solve.

Find out who used BODMAS correctly, to see who is telling the truth. The person telling the truth is not the murderer.

		Correct answer
7+2×4	Emma's answer: 36	
5x4÷2	David's answer: 8	
2x6÷3	Mel's answer: 12	
6-2x2	Louis' answer: 8	
(5×5)-4×5	Gary's answer: 5	
23-7x4÷2	Amanda's answer: 32	

Clue 2: Weapon of choice

It is clear that Ant and Dec were poisoned somehow.

Which one of the celebrities doesn't have any toxins in their dressing room?

Solve the sums to see how many toxins the celebrities have in their dressing rooms.

Simon	7÷(10+3-6)	
David	(4+1+4) ÷3	
Mel	9÷9x(8+7)	
Louis	0÷5x3x3	
Gary	8+3÷3+9	
Amanda	10÷5×3×3	

Clue 3: It's all in the blood

A drop of blood was found at the scene which was found to be blood type O.

Only one of the suspects does not have this blood type.

Blood type O is defined to have either a 3 or a 4 or both in the genetic coding.

Find which of these solutions does not contain a 3 or a 4 to eliminate a suspect.

Simon	15-3×4	
David	20÷(10÷2)	
Mel	4-4+3×11	
Louis	2x25-2x3	
Gary	4+5×6	
Amanda	24-(6×2)	

Clue 4: If the boot fits

The detectives found a mysterious footprint around Ant and Dec's drinks cabinet. The print seemed to be between 10 and 11 inches long.

Solve these equations to find out whose feet aren't the right size.

Simon	0×10+10	
David	(5-5+7×3) ÷ 2	
Mel	(30-3) ÷ (6÷2)	
Louis	(77+11) ÷ 8	
Gary	(0÷5) + 51÷5	
Amanda	((5x2)x2) ÷2	

Clue 5: Phone calls

The murderer must have called the TV duo a lot over the past week to try and convince them to keep quiet – so we'll eliminate the person who phoned them the least amount of times.

Solve these equations to find out how many phone calls they each made.

Simon	(10÷2-3) ²	
David	8x(8-8) ÷9	
Mel	4+10-(5+7)	
Louis	9+(6÷6) ⁹	
Gary	3 ² +4÷2	
Amanda	(5-8÷8)x4	

Extension: Why?

Solve each of the questions. Look for your answer in the grid below. Cross out each box containing a correct solution. When you have finished there will be 15 boxes left. Write the letters in those boxes in order from right to left.

$$3 \times (5^2-4^2)$$

$$(7 + 1)^2 + (10 - 6)^2$$

$$9^2 + 4^2 + (4 \div 2)^2 -1$$

$$2 + (4+3)^2$$

$$(6 + 2)^2 - 1$$

$$4^3 \div 8$$

$$36 \div (6 \div 2)^2$$

AN	ER	IC	RS	ST
27	81	12	51	63
IS	AI	NO	TH	RS
	8	101	9	100
IS	ON	RM	50	N!
7	4	80	28	10

Add and subtract decimals up to 2 decimal places

$$5)£28.53 + £3.55 + £7.00$$

- 6) Katie goes to Kwik Save and buys Sausages for £1.39, Cheese for £2.50 and Apples for £1.27. How much did she spend?
- 7) The council spends £6.9 million on schools. Their whole budget is £70.6 million. How much is left for other things?
- 8) Kayleigh runs 100 metres in 13.7 seconds. Helen runs it in 12.9 seconds. How much faster is Helen?

9) Yasmin is fitting a skirting board in her bedroom. The walls measure 3 metres, 1.6 metres, 1.75 metres, 3 metres, 0.95 metres and 0.85 metres. How much skirting board will she need?

Multiply and divide decimals up to 2 decimal places

- 1) Dave went to buy Christmas cards. He got 7 packs at £3.15 each. How much did he spend?
- 2) Chris is building a fitted kitchen. He needs 5 units measuring 52.5 cm and 3 units measuring 76.25 cm. How much does this come to altogether?
- 3) Mark makes 9 local phone calls on Saturday. Each one costs 4.3p a minute. How much did they cost altogether?
- 4) Patrick works in a restaurant. He has to make 5 strawberry and cream gateaux. He has 2.25 kg of strawberries and 1.95 litres of cream altogether. How much will he put on each gateau?
- 5) Yasmin has a piece of wood measuring 1.72 metres. She wants to put 2 shelves in her hall. How long will each shelf be?
- 1) 6) 2.1

2) 4) $\overline{2.3}$

3) 2) 52.1

4) 6) 13.23

Dividing decimals mystery



Work out each division and then find it in the table of answers. Write the letter of the sum in the box above the answer.

(I)
$$120 \div 100$$

(E)
$$4.2 \div 3$$

$$(H) 9.9 \div 3$$

(L)
$$27 \div 30$$

(O)
$$19.5 \div 3$$

$$(N) 7.5 \div 1.5$$

$$(T) 65 \div 50$$

(K)
$$87 \div 10$$

(B)
$$3.6 \div 0.9$$

(E)
$$9 \div 6$$

(R)
$$14 \div 4$$

(E)
$$5.34 \div 5.34$$

(L)
$$16.5 \div 2$$

(A)
$$21 \div 30$$

(K)
$$7200 \div 900$$

(S)
$$13.5 \div 3$$

(E)
$$490 \div 70$$

$$(W) 402 \div 300$$

$$(K) 22 \div 4$$

(C)
$$171 \div 17.1$$

(O)
$$396 \div 400$$

(S)
$$214.8 \div 4$$

$$(0) 2.28 \div 1.14$$

(L)
$$4.8 \div 3$$

(A)
$$45 \div 6$$

(G)
$$14.32 \div 3$$

(R)
$$17.6 \div 2$$

(E)
$$420 \div 70$$

(D)
$$17.66 \div 2$$

$$(N) 96.8 \div 2$$

(S)
$$4 \div 1.6$$

(E)
$$2.7 \div 0.9$$

(C)
$$0.27 \div 0.03$$

1.3	3.3	1	8.7	1.2	0.9	1.6	1.5	3.5	1.34	1.98	1.633	1.4	4	8.25	0.7	10	8
•			•	•								•	•	•	•	•	•

Simplify fractions to find equivalent forms

1)
$$\frac{63}{81} =$$

11)
$$\frac{40}{44} =$$

$$2) \frac{8}{16} =$$

12)
$$\frac{88}{96} =$$

$$3) \frac{7}{14} =$$

13)
$$\frac{10}{90} =$$

4)
$$\frac{14}{16} =$$

14)
$$\frac{10}{15} =$$

$$5) \frac{40}{48} =$$

15)
$$\frac{18}{30} =$$

6)
$$\frac{24}{30} =$$

16)
$$\frac{18}{42} =$$

$$7) \frac{42}{49} =$$

17)
$$\frac{32}{80} =$$

$$8) \frac{10}{30} =$$

18)
$$\frac{7}{28} =$$

9)
$$\frac{7}{28} =$$

19)
$$\frac{40}{60} =$$

10)
$$\frac{4}{20} =$$

20)
$$\frac{6}{48} =$$

Find parts of whole number quantities or measurements, e.g. 2/3 or ¾

1)	What is ¾ of 500?
2)	What is 2/3 of 600?
3)	What is 4/5 of 9005?
4)	What is 6/8 of £200?
5)	What is 2/5 of £500?
-	go for a meal with 5 friends the meal costs £74. You have a voucher for 1/3 off. How is the discount?
1 b) Ho	ow much does the meal cost now?
	book a holiday which costs £3000. You check the price a week later and it has gone 1/8 how much has the price increased by?
2b) Ho	w much does the holiday cost now?
3) Lucy blue?	y has a bag of 6 counters. 5 of them are red. The rest are blue. What fractions are
	ah calculates that she spends 1/3 of her pocket money on sweets, and 2/5 on ines. What fraction of her pocket money does Sarah spend on sweets and magazines?

Convert mixed fractions

- 1) Convert the following to mixed numbers:
- a) $\frac{11}{6}$
- **b)** $\frac{12}{8}$
- c) $\frac{16}{7}$
- d) $\frac{43}{4}$
- 2) Convert the following into an improper fraction:
- a) $4\frac{3}{5}$
- b) $3\frac{2}{9}$
- c) $6\frac{5}{6}$
- d) 9

Adding and Subtracting Fractions Codebreaker

Α	В	С	D	Е	F	G	Н	I	J	K	L	М
31	19	20	1	23	5	19	33	3	19	3	19	17
40	24	21	$\overline{10}$	24	12	21	40	$\overline{4}$	30	20	36	30
	1							1	1			
N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
11	9	13	7	8	7	7	7	11	3	11	1	17
24	20	18	15	<u>15</u>	12	9	20	18	10	30	20	24

Calculate the answers to the fraction problems below giving your answers in their simplest form, link your answers to the table above to reveal:

Why the worst type of crime is in multi-storey car parks?

		1
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{4}{5} - \frac{3}{4}$	$\frac{3}{4} - \frac{2}{9}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

Recognise and calculate equivalences between common fractions, percentages and decimals

Fill in the blank spaces in the table below so that each of the values along the row shows the equivalent amount.

FRACTIONS	DECIMALS	PERCENTAGES
$\frac{1}{4}$		
4		
	0.35	
		15%
$\frac{3}{4}$		
$\overline{4}$		
	0.50	
		22%
<u>5</u> 8		
0		
	0.02	
$\frac{2}{5}$		
		120%

Space for working		

Calculate percentages of amounts and simple percentage increase and decrease

1.Carol receives £5 pocket money. How much pocket money does she get if she receives an increase of 15%?
2.A man on a weekly wage of £210 receives an increase of 3.5%. A woman on a weekly wage of £142 receives an increase of 5%. Who receives the highest increase and what is the difference?
3.A museum gives a discount of 10% of the normal price to everyone who has a season ticket. How much does a person with a season ticket pay for a book which costs £9.90?
4.A shop bought a camera for £214 and sold it making a profit of 32%. Find out the selling price of the camera.
5. The price of a computer without VAT is £996. What is the price of the computer including VAT at 20%?
6. A car tyre costs £22.50 without VAT. How much will 4 tyres cost including VAT at 17.5%?
7. 95% of the school's children are present today. If there are 640 children on the school register, how many children are present? How many children are absent?

Calculate direct proportion

1.	A florist feeds l	าer flowers witl	n 6 drops of fe	rtilizer to every	400ml of	Ē
water.	How many drop	os of fertilizer a	re needed for	1.8 litres of wat	ter?	

- 2. Blackcurrant squash is sold in the interval. The instructions on the bottle state 'for squash, mix one part concentrate with three parts water.' How much concentrate is used to make 3 litres of squash?
- 3. A committee member makes scones for the refreshment stall. These are the ingredients from the recipe she uses.

225g self-raising flour

40g butter

150ml milk

5ml baking powder

1 pinch of salt

These ingredients will make 8 scones

She buys ingredients for 144 scones. How many 250g packs of butter does she buy?

4. A builder makes a concrete mix for an extension. He uses 3 litres of water with every 25 kilograms of dry concrete materials.

To the nearest litre, how much water does the builder add to 160 kilograms of dry concrete materials.

Calculate mean and range

- 1) Find the mean and range of the list of number below.
- 280, 350, 320, 400, 350, 490, 590, 470, 280, 410
- 2) Below is a list of recorded reaction times in seconds.
- 0.25, 0.34, 0.39, 0.38, 0.39, 1.67, 0.28, 0.30, 0.42, 0.67

Calculate the mean reaction time

3) John rolled a dice 5 times here are the numbers he rolled: 3 2 4 6 3

What is the mean of these numbers?

4) Kelsey is a doctor she wants to know what the average weight of 6 of her patients is.

Here are the weights, in kg, 59 62, 58, 65, 58, 58

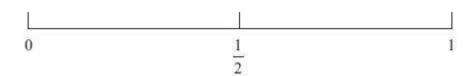
What is the mean of these weights?

- 5) Here are the ages of 6 people.
- 5 18 10 14 22 12
- (a) Work out the range and the mean of these ages.

Express the likelihood of an event using fractions, and on a scale of 0 to 1

Liam throws a fair coin once.

1. On the probability scale below, mark with a cross (x) the probability that he gets a head.



2. Ann rolls a fair dice once.

On the probability scale below, mark with a cross (x) the probability that she gets a 7



likely impossible certain evens unlikely

- 3. Use a word from the box which best describes the probability of each of the following events.
- (a) When you throw an ordinary coin you get a tail.

.....

(b) When you throw an ordinary dice you get a number less than $7\,$

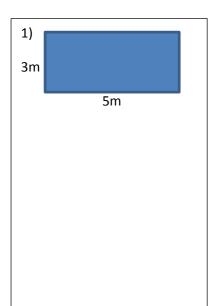
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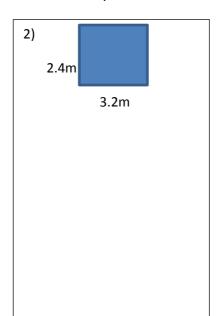
(c) Christmas day will fall on the 25th December this year

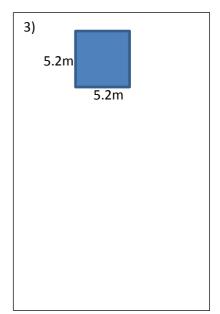
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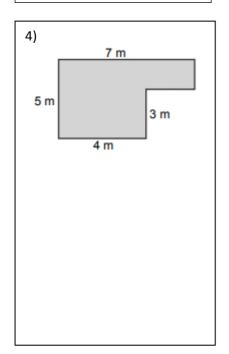
Calculate area and perimeter and volume

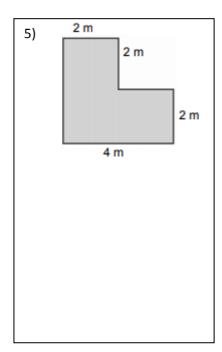
Work out the area and perimeter of the shapes below:

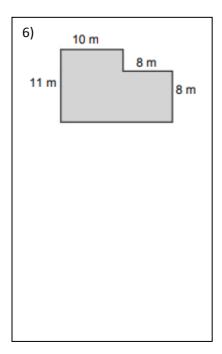




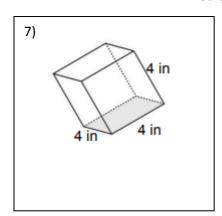


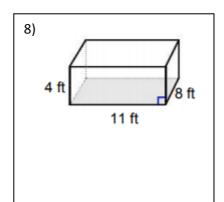


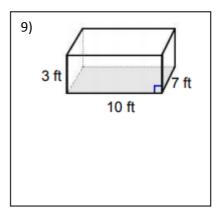




Calculate the volumes of the shapes below





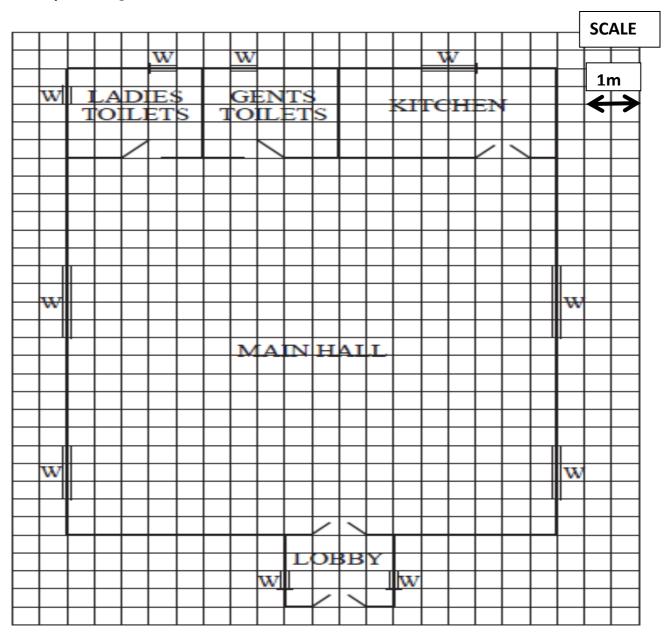


Recognise and make use of simple scales on maps and Scale drawings

The diagram below shows the plan of a village hall

Use the given scale to work out the real life measurements of the following?

- a) The dimensions of the kitchen?
- b) The area of the lobby?
- **c)** The length of the kitchen window?



Recognise and make use of simple scales on maps and drawings

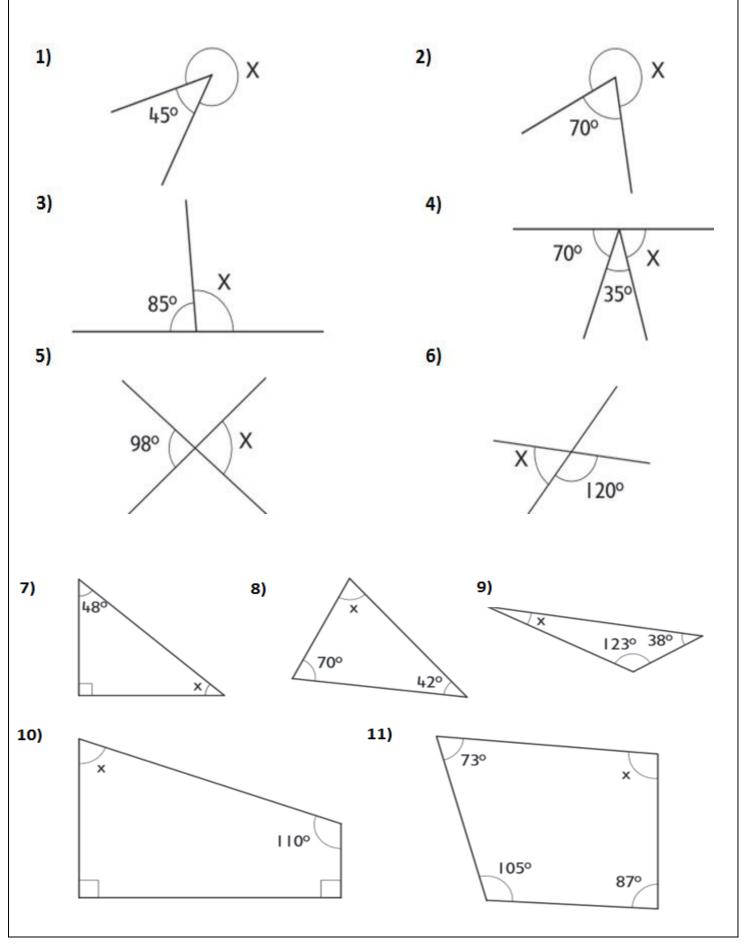
The map below zooms in on the area of Westminster use a ruler to answer the questions below



- 1. The Houses of Parliament is shown by its proper name of the Palace of Westminster on this map. How far does the Prime Minister have to travel to get from 10 Downing Street to Parliament?
- 2. Horse Guards Parade will be the venue of the Beach Volleyball at this summer's Olympic Games. How far is it from Charing Cross station?
- 3. How long is Westminster Bridge?
- 4. What is the perimeter and area of Jubilee Gardens?

Calculate angles

Calculate the missing angles. Diagrams are not drawn accurately.



Convert between units of length, weight, capacity, in the same system

Metric Units Cross-number

Solve like a crossword puzzle except that numbers replace words.

Look carefully at the units given. Convert the units so they are the same before completing.

1	3	0	0		2		3
				7			
		6			8	9	
4				12		10	11
5					13		

Across

1. 1.5km – 200m =m

<u>Down</u>

Perform calculations with time

Murder at the Grange

Mrs Marsden was found shot in the dining room. The clock had been knocked off the table as she fell. The clock had stopped working when it fell and it showed a time of 3 o'clock.

There were two suspects. One was Mrs Marsden's favourite niece, who stood to inherit a fortune from Mrs Marsden's will. The niece was being blackmailed by her former lover and had no money of her own. The other suspect was the manager of Mrs Marsden's riding stables, who owed Mrs Marsden money.

Both suspects had visited Mrs Marsden on the day of the murder.

The niece had left home in London at 9.50 am. It took her 25 minutes to get to the station. It took her another 15 minutes to buy her ticket to Northallerton.

Here are the train times. Fill in the missing times.

London	10.25	10.45	11.45
Northallerton	13.25		
Darlington	13.55		

The niece needed to get to Northallerton and then get a taxi which would take 15 minutes. The Manager had been to see her bank manager in Northallerton for a meeting. The meeting started at 13.30 and lasted for 50 minutes. She took a bus from Northallerton to the Grange, ending with a short walk of 5 minutes.

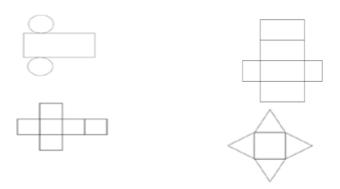
Here are the bus times. Fill in the missing times.

West Bridge	13.45	14.15	14.45
Northallerton	13.48		
The Old Hospital	13.51		
The Grange	13.57		
East Moor	14.05		

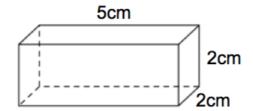
Draw a timeline to show who was the murderer

Nets

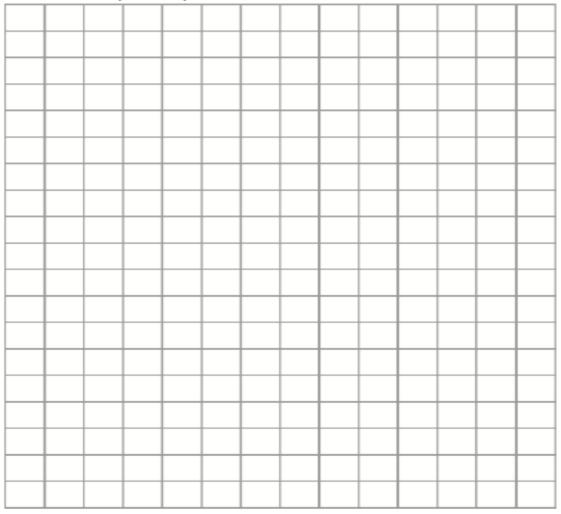
Write down the names of the shapes these nets represent



Draw a net of the cuboid



Each square represents 1cm²



Plans and elevation

Label the front elevation, side elevation and plan of the shapes below.

