ENTRY LEVEL

WJEC ENTRY LEVEL Certificate in

MATHEMATICS - NUMERACY

REGULATED BY OFQUAL
DESIGNATED BY QUALIFICATIONS WALES

SAMPLE ASSESSMENT MATERIALS

Teaching from 2016

For teaching from 2016
For award from 2018

ENTRY LEVEL CERTIFICATE IN MATHEMATICS - NUMERACY

SAMPLE ASSESSMENT MATERIALS

Contents

Candidate Name	Centre Number					Candidate Number				

ENTRY LEVEL CERTIFICATE

UNIT 1

MATHEMATICS – NUMERACY
WRITTEN EXAMINATION

SAMPLE ASSESSMENT MATERIALS

1 hour

CALCULATORS MAY BE USED FOR THIS PAPER.

For Examiner's use only		
Page	**Maximum Mark**	**Mark Awarded**
3.	11	
5.	9	
7.	8	
9.	8	
11.	10	
13.	10	
14.	4	
Total	60	

ADDITIONAL MATERIALS

In addition to this examination paper, you will need:

- a calculator;
- a ruler.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.
Do not use gel pen.
Do not use correction fluid.
Answer **all** questions.
Write your name, centre number and candidate number in the spaces at the top of this page.
Write your answers in the spaces provided in this booklet.
If you have difficulty reading a question, put up your hand and the teacher-in-charge will read it to you.

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*Answer **all** questions.*

1. Write down the number 702 **in words**. [1]

.....

2. Is the arrow pointing **left** or **right** ? [1]

.....

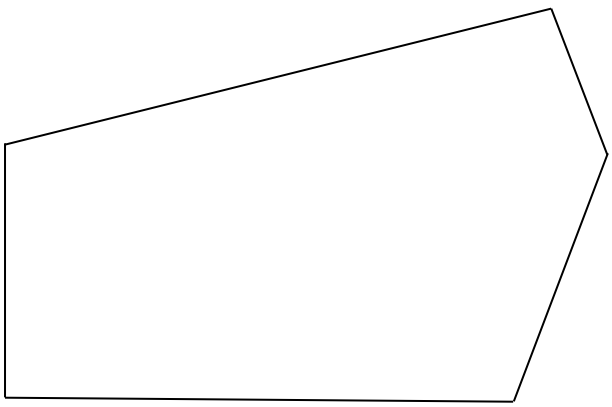
3. Order these numbers. Start with the smallest. [1]

272 722 727 772 227

.....

……. ……. ……. ……. ……

4. Show the right angles in this shape. [2]



5. The pupils in class 11CX were asked how many brothers or sisters they had.
The results are as follows.

1 3 0 1 1 2 1 2 1 2

2 0 1 1 2 0 3 2 1 1

Complete this tally and frequency table. [3]

Number of brothers or sisters.	Tally	Frequency
0		
1		
2		
3		

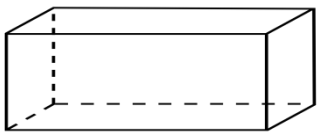
6. What is the value of 1 in the number 8 316? [1]

.....

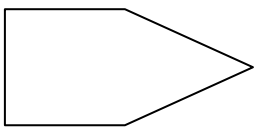
7. Label the shapes.
Use this list of words to help you.

Square Rectangle Triangle Circle Pentagon Hexagon Cube

Cuboid Cylinder Cone Sphere

(a)  [1]

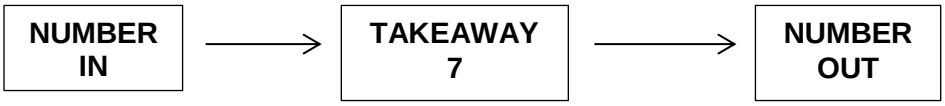
.....

(b)  [1]

.....

11

8. This is a number machine.



(a) If the **NUMBER IN** is 12, find the **NUMBER OUT**. [1]

.....

.....

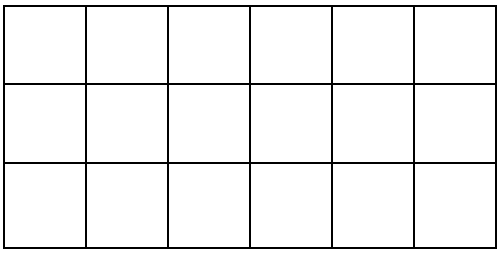
(b) If the **NUMBER OUT** is 10, find the **NUMBER IN**. [1]

.....

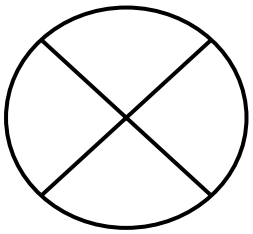
.....

9. Shade in half of each of these shapes.

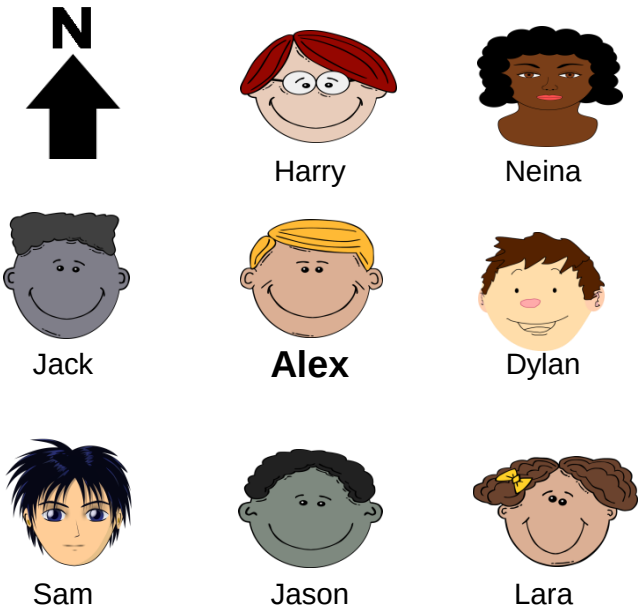
(a) [1]



(b) [1]



10. Look at his diagram of Alex and his friends.



(a) Alex looks East. Who does he see? [1]

.....

(b) Alex looks South West. Who does he see? [1]

.....

11. Last year 5 743 British people went to Tibet.
Round this number to:

(a) the nearest 10; [1]

.....

(b) the nearest 1000. [1]

.....

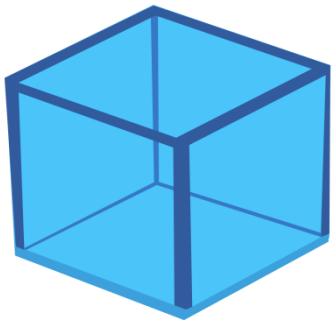
12. The arrow was pointing at A.
It has moved.
Now it is pointing at B.

Through how many right angles has the arrow moved? [1]

.....

9

13. The diagram shows a cube.



(a) How many edges does it have? [1]

.....

(b) How many faces does it have? [1]

.....

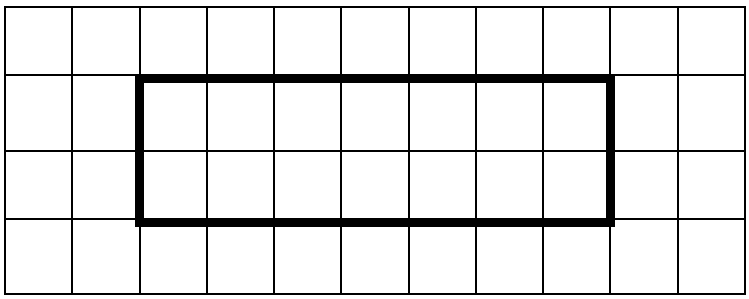
14. Write down these numbers in order of size, starting with the smallest [1]

4 −2 7 −5 3

.....

…….. ……. ……. ……. …….

15. This rectangle is drawn on cm^2 paper.

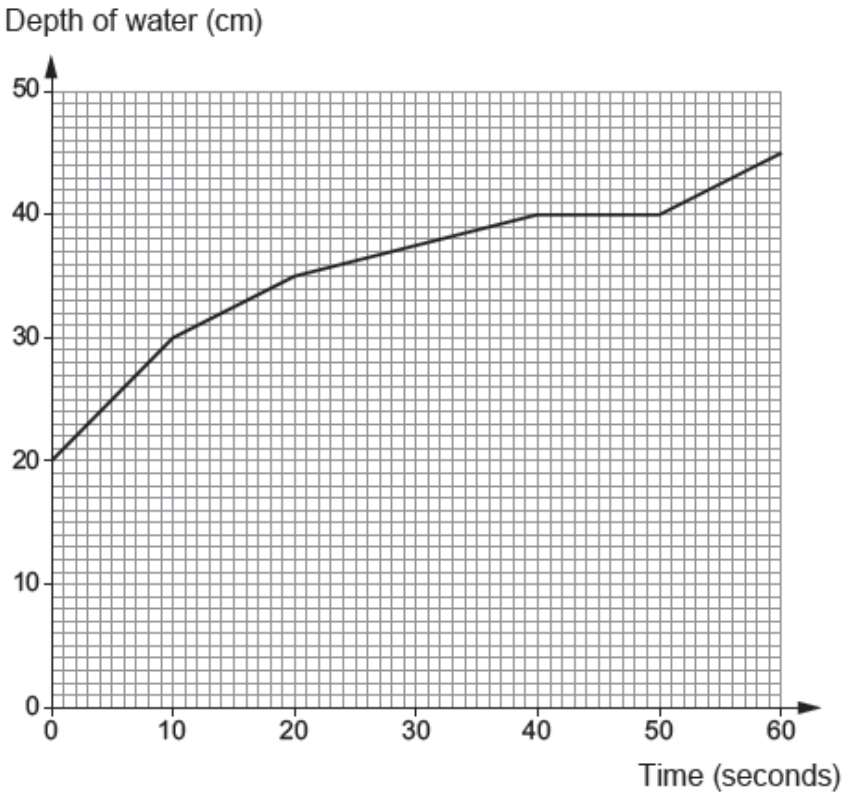


What is the perimeter of this rectangle? [1]

.....

……

16. Dewi is measuring the depth of water in a tank.
He presents his results in a graph.



(a) What was the depth of water in the tank at the start? [1]

.....

(b) How many seconds did it take to fill to a depth of 30cm? [1]

.....

17. Work out:

(a) $\frac{1}{3}$ of 21 [1]

.....

(b) $\frac{1}{5}$ of 45 [1]

……

8

18. The school football team are in the cup final, and people are going to watch.

23 people are catching the bus, and there are 5 cars going, each with 4 people in.

How many people are going altogether? [2]

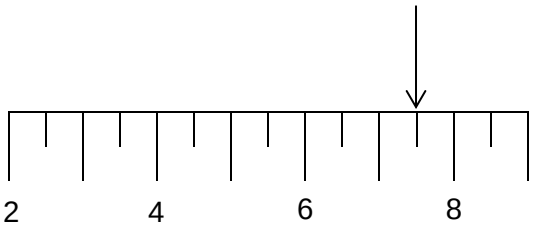
.....

.....

.....

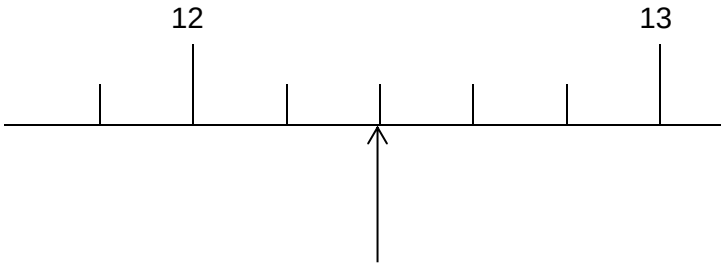
19. On each diagram the arrow is pointing to the weight on a scale.
Write down the weight shown on each diagram.

(a) [1]



.....

(b) [1]

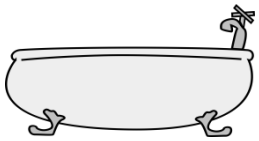


.....

20. Choose one of the units given below to best describe each of the following:

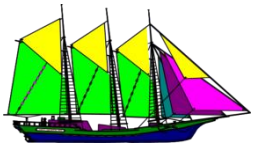
mm, cm, m, km, ml, litre, g, kg.

(a) Amount of water in a bath. [1]



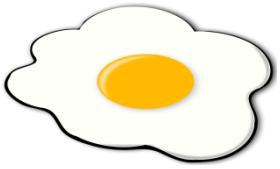
.....

(b) Length of a boat. [1]



.....

(c) Mass of an egg. [1]



.....

21. What fraction of the shape is shaded? [1]

.....

8

22. Choose the best word from the list below to describe the chance of each of the following events happening.

impossible unlikely even chance likely certain

(a) It will rain somewhere in Wales next week. [1]

.....

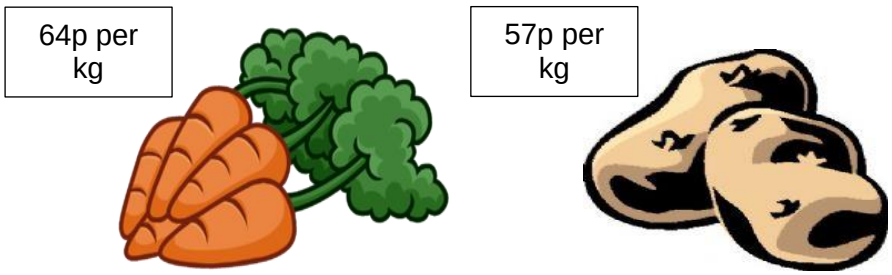
(b) You will grow to be 10 metres tall. [1]

.....

(c) Someone in your class will have a birthday this year. [1]

.....

23.



What is the total cost of 3 kg of carrots and 5 kg of potatoes?
Give your answer in £. [3]

.....

.....

.....

24. What is the value of the 6 in the number 283·16? [1]

……

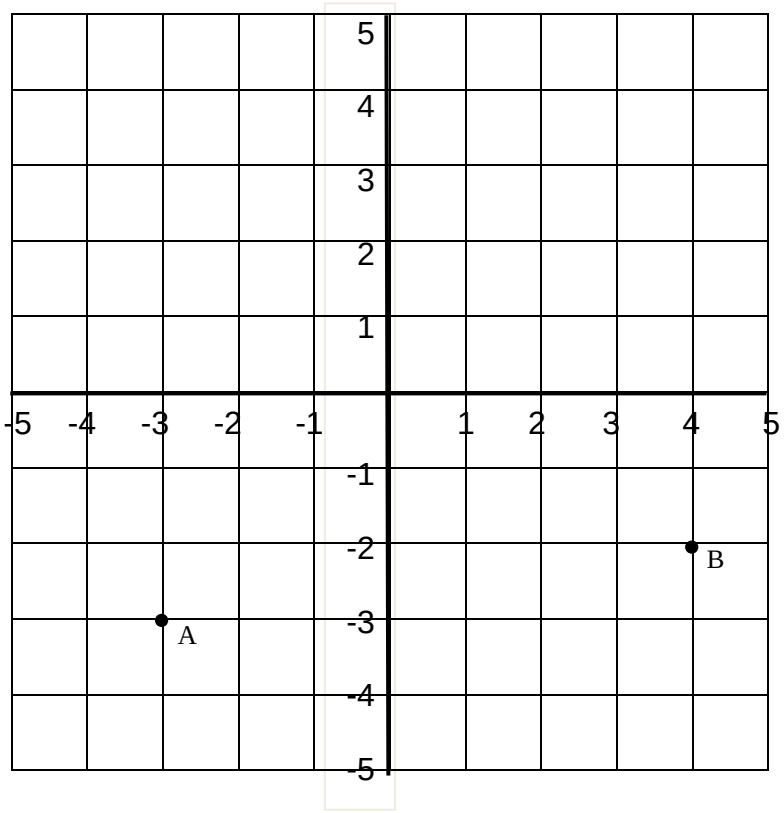
25. Is the number 471 an even number? [1]
Give a reason for your answer.

Yes or no .....

Reason: .....

.....

26.



The co-ordinates of point A are (−3 , −3).

(a) Write down the co-ordinates of point B. [1]

.....

Point C has co-ordinates (−1 , 3).

(b) Plot points C. [1]

.....

10

27. Carly counted the number of people using the swimming pool for a week [3]

74 93 51 96 74 134 129

(a) What is the range?

.....

.....

(b) What is the median?

.....

.....

28.

(a) Anton buys 4 of these CDs.
How much does he spend? [1]

.....

.....

(b) He pays with 4 £10 notes.
How much change does he get? [1]

.....

.....

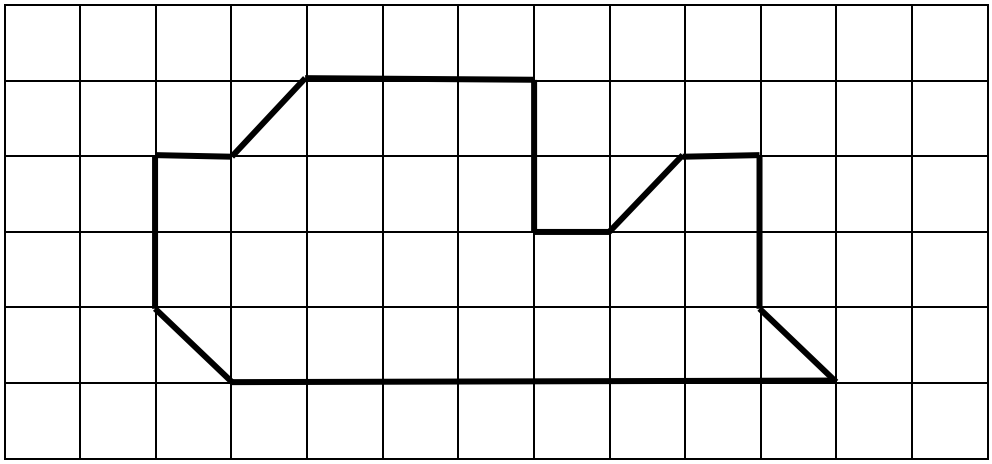
29. Solve the equation.

$x + 5 = 12$ [1]

.....

.....

30. This shape is drawn on cm2 paper.



What is the area of this shape? [3]

.....

.....

.....

31. Krithick uses this formula to work out the length of his arm.

Arm length = 3 x Length of foot.

Krithick's foot is 24 cm long, how long is his arm? [1]

.....

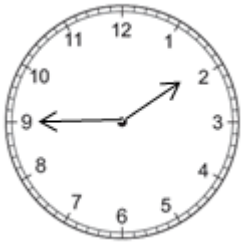
.....

32. The clock below shows a time in the morning.
Write the time using a.m. or p.m.

(a)  [1]

.....

(b) The clock below shows a time in the afternoon.
Write the time using a.m. or p.m. [1]



.....

33. Circle the correct answer for the following statements.
Write the time using a.m. or p.m.

(a) The two numbers that have a sum of 12 are [1]

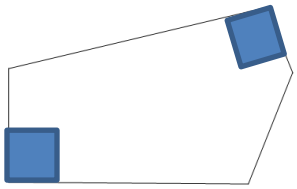
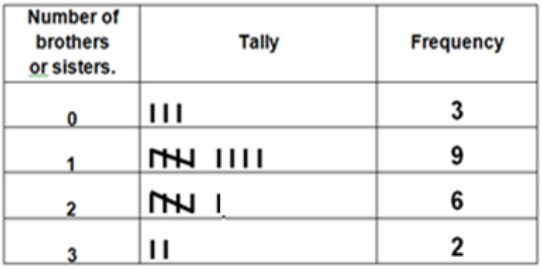
2 and 6 4 and 8 14 and 2 24 and 2

(b) The two numbers that have a product of 12 are [1]

2 and 6 4 and 8 14 and 2 24 and 2

4

UNIT 1 ENTRY LEVEL CERTIFICATE MATHEMATICS– NUMERACY
SAMPLE ASSESSMENT MATERIALS
MARK SCHEME

		Mark	Comment
1.	Seven hundred and two.	B1	Allow one number written as a number e.g. seven hundred and 2.
2.	Left	B1	
3.	227 272 722 727 772	B1	
4.		B1 B1	Accept any clear indication of the corners e.g. ticks, crosses, R.
5.		B3	B1 for tallies shown as 'l's (no gate) and correct frequency. Allow one error. B2 for tallies shown with gate and correct frequency. Allow one error.
6.	10	B1	
7.	(a) Cuboid (b) Pentagon	B1 B1	
	PAGE TOTAL	11	
8.	(a) 5 (b) 17	B1 B1	
9.	(a) Accept any 9 squares shaded (b) Accept any 2 parts shaded	B1 B1	
10.	(a) Dylan (b) Sam	B1 B1	
11.	(a) 5 740 (b) 6 000	B1 B1	
12.	2	B1	
	PAGE TOTAL	9	
13.	(a) 12 (b) 6	B1 B1	
14.	-5 -2 3 4 7	B1	
15.	18 (cm)	B1	
16.	(a) 20 (cm) (b) 10 (seconds)	B1 B1	
17.	(a) 7 (b) 9	B1 B1	
	PAGE TOTAL	8	

18.	23 + 5 x 4 = 43 (people)	M1 A1	Allow M1 for 23 +20
19.	(a) 7·5 (b) 12·4	B1 B1	
20.	(a) litre (b) m (c) g	B1 B1 B1	
21.	$\frac{4}{9}$	B1	
	PAGE TOTAL	8	
22.	(a) likely (b) impossible (c) certain	B1 B1 B1	
23.	3 x 64 + 5 x 57 = 192 + 285 = 477 £4·77	M1 M1 A1	Allow M1 for 192 + 285 Final answer to be in £.
24.	6 hundredths or 0·06	B1	
25.	No. It ends in an odd number.	 B1	Explanation is needed.
26.	(a) (4 , −2) (b) Point correctly plotted.	B1 B1	
	PAGE TOTAL	10	
27.	(a) 83 (b) 51 74 74 93 96 129 134 Median = 93	B1 M1 A1	M1 for ordering
28.	(a) £34·60 (b) £5·40	B1 B1	
29.	(x =) 7	B1	
30.	24 'whole squares' 4 half squares, so 2 'whole squares' Area of shape = 26 (cm^2)	M1 M1 A1	
31.	72 (cm)	B1	
	PAGE TOTAL	10	
32.	(a) 9:20 am (b) 1:45 pm	B1 B1	
33.	(a) 4 and 8 (b) 2 and 6	B1 B1	
	PAGE TOTAL	4	
	TOTAL FOR PAPER	60	

Candidate Name	Centre Number					Candidate Number				

ENTRY LEVEL CERTIFICATE

UNIT 2

MATHEMATICS - NUMERACY STAGE 1

SAMPLE ASSESSMENT MATERIALS

30 minutes

CALCULATORS ARE NOT TO BE USED FOR THIS PAPER.

For Internal assessor's use only		
Page	**Maximum Mark**	**Mark Awarded**
3.	10	
5.	10	
7.	10	
Total	30	

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*Answer **all** questions.*

1. Write in figures: four hundred and seventy nine. [1]

.....

2. (a) Find two **odd** numbers which give a total of 14. Write them below. [1]

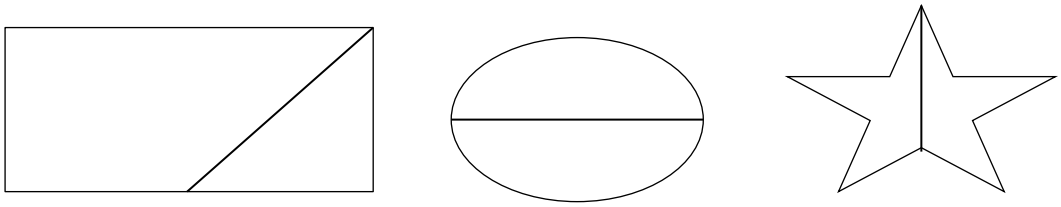
_____ + _____ = 14

(b) Find two **even** numbers which give a total of 14. Write them below. [1]

_____ + _____ = 14

3. Have these shapes have been split in half? Write: **yes** or **no**. [2]

(a) (b) (c)

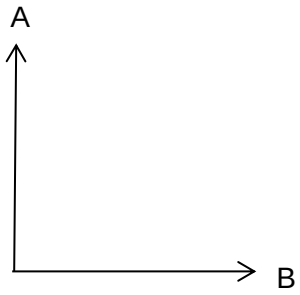


....

4. Work out: 7 + 4 + 1 + 3 + 9. [1]

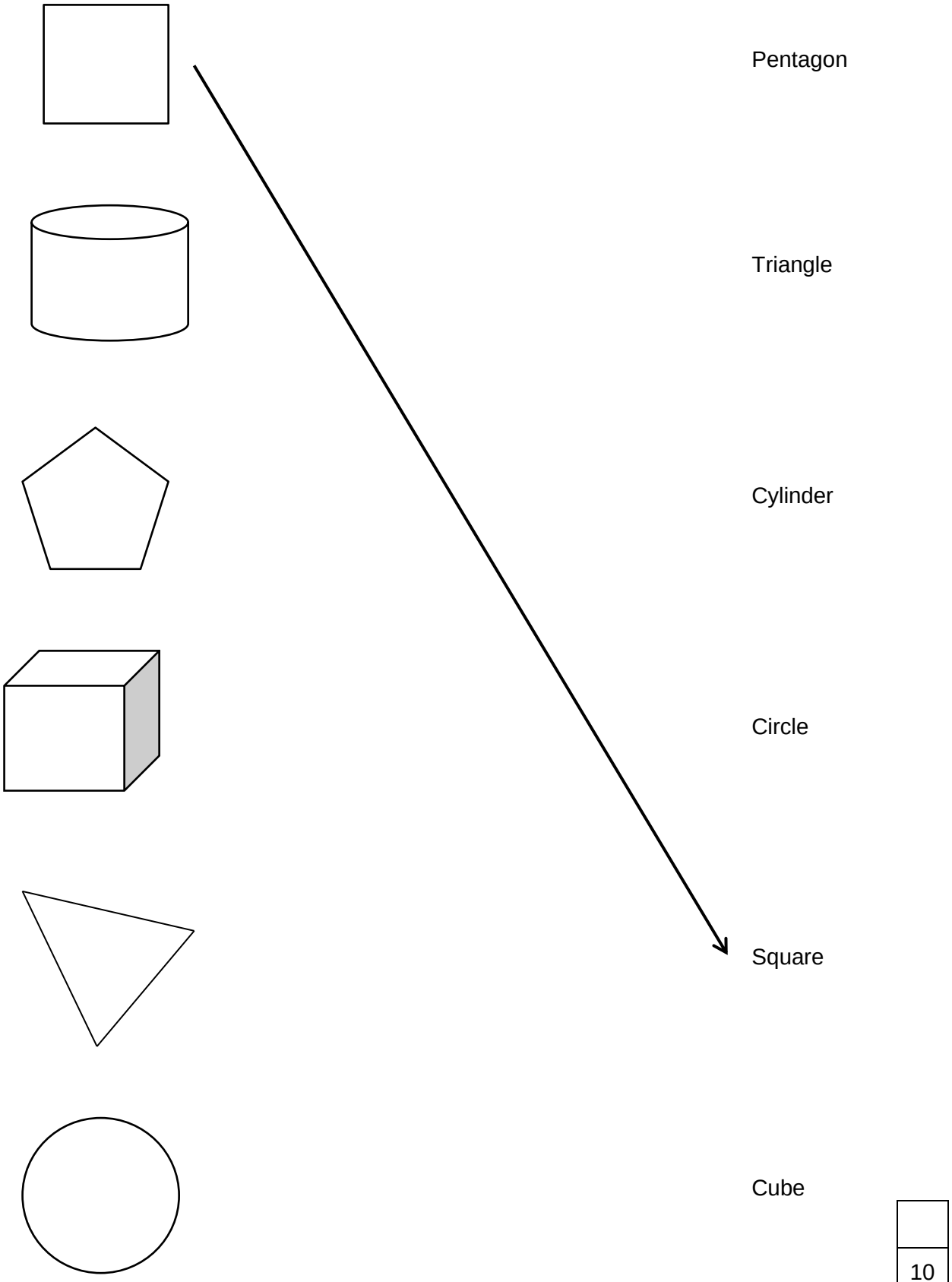
.....

5. The arrow was pointing at A.
It is now pointing at B.
Which word describes the turn: clockwise or anti-clockwise ? [1]



.....

6. Join the shape to its name. [3]
One has been done for you.



10

7. Fill in the missing numbers in the shapes below. [3]

(a) ◯ + 4 = 11

(b) 5 × △ = 15

(c) □ − 5 = 9

8. Work out:

(a) 37 + 44 = [1]

.....

.....

.....

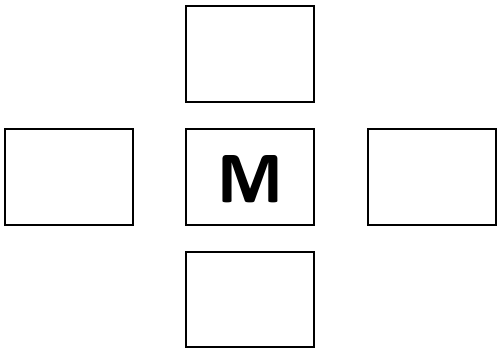
(b) 85 − 29 = [1]

.....

.....

.....

9.



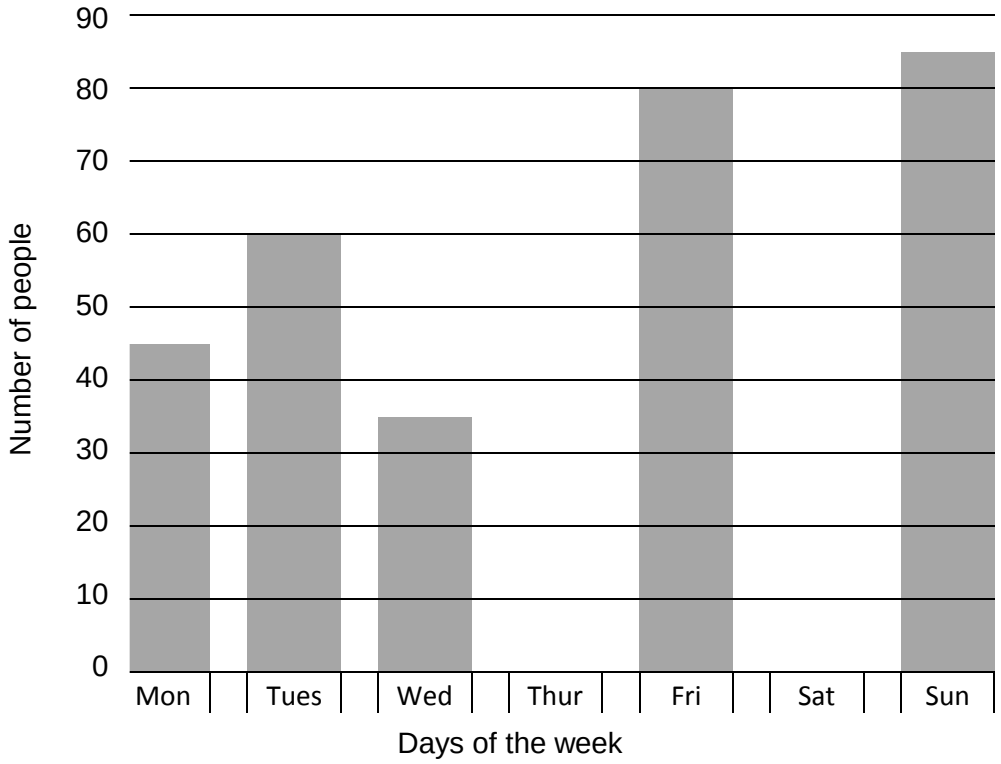
(a) Put the letter **L** in the box that is left of the M. [1]

(b) Put the letter **A** in the box above the M. [1]

10. The table shows the number of people who went to the cinema during a week in November.

Day of the week	Number of people going to the cinema
Monday	45
Tuesday	60
Wednesday	35
Thursday	50
Friday	80
Saturday	65
Sunday	85

Title: People at the cinema.



(a) Complete the graph to show the number of people at the cinema. [2]

(b) On which day did the fewest number of people go to the cinema? [1]

……

10

11. (a) A jumper usually costs £18.
In a sale it is sold at half (½) price.
How much is the jumper in the sale? [1]

……..

……..

……..

(b) A hat is sold at half (½) price in a sale.
It costs £6 in the sale.
What was the price of the hat before the sale? [1]

……..

……..

……..

12 (a) There were 23 cars in a car park.
15 more cars arrive.
How many cars are in the car park now? [1]

……..

……..

……..

(b) A bottle of lemonade costs £2.
Jane buys 6 bottles.
How much does she spend? [1]

……..

……..

……..

(c) Ali has 19 sweets.
He eats 12 of them.
How many does he have left? [1]

……..

……..

……..

13. The table shows the temperatures in two cities, Madrid and Sydney.

	Madrid	Sydney
January	5	24
February	7	24
March	11	23
April	16	20
May	18	18
June	25	16
July	29	14
August	31	15
September	27	18
October	17	20
November	12	22
December	9	24

(a) Which city was hotter in July? [1]

.....

(b) Which city was hotter in December? [1]

.....

(c) Which month did both cities have the same temperature? [1]

.....

14. Circle the correct answer.

(a) The two numbers that are factors of 10 are [1]

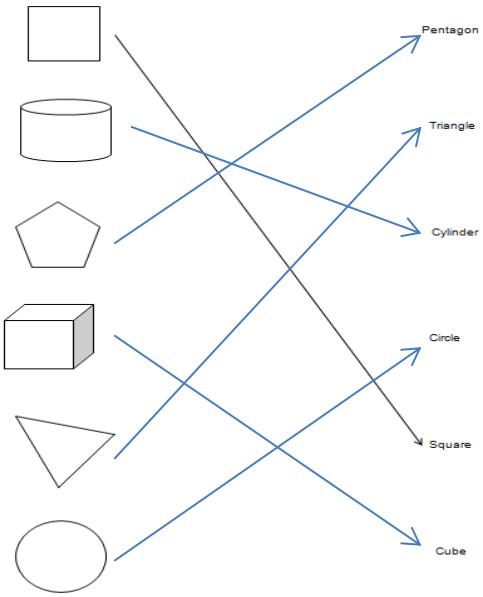
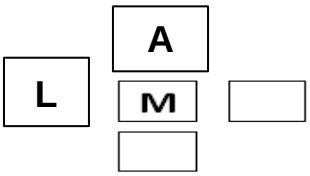
3 and 7 2 and 5 6 and 16 20 and 30 4 and 40

(b) The two numbers that are multiples of 10 are [1]

3 and 7 2 and 5 6 and 16 20 and 30 4 and 40

10

UNIT 2 ENTRY LEVEL CERTIFICATE MATHEMATICS – NUMERACY
SAMPLE ASSESSMENT MATERIALS
STAGE 1: MARK SCHEME

		Mark	Comment
1.	479	B1	
2.	(a) 1 + 13 (b) 2 + 12	B1 B1	Or any equivalent answers
3.	(a) No (b) Yes (c) Yes	B2 for all 3 correct.	B1 if only 2 correct B0 if only 1 correct
4.	24	B1	
5.	Clockwise	B1	
6.		B3 for all 5 correct.	B2 for 3 or 4 correct B1 for 2 correct B0 for 1 correct
	PAGE TOTAL	10	
7.	(a) 7 (b) 3 (c) 14	B1 B1 B1	
8.	(a) 81 (b) 56	B1 B1	
9.		B1 B1	
10.	(a) Bars drawn at correct height (b) Wednesday	B2 B1	B1 for 1 correct
	PAGE TOTAL	10	

11.	(a) (£) 9 (b) (£) 12	B1 B1	
12.	(a) 38 (cars) (b) (£) 12 (c) 7 (sweets)	B1 B1 B1	
13.	(a) Madrid (b) Sydney (c) May	B1 B1 B1	
14.	(a) 2 and 5 (b) 20 and 30	B1 B1	Answers to be clearly indicated, accept ticks etc.
	PAGE TOTAL	10	
	TOTAL FOR PAPER	30	

Candidate Name	Centre Number					Candidate Number				

ENTRY LEVEL CERTIFICATE

UNIT 2

MATHEMATICS - NUMERACY STAGE 2

SAMPLE ASSESSMENT MATERIALS

30 minutes

CALCULATORS ARE NOT TO BE USED FOR THIS PAPER.

For Internal assessor's use only		
Page	**Maximum Mark**	**Mark Awarded**
3.	14	
5.	9	
7.	7	
Total	30	

INSTRUCTIONS TO CANDIDATES

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INFORMATION FOR CANDIDATES

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*Answer **all** questions.*

1. The number of people at the Wales v Belgium match was 32 745.

   (a) Write this number to the nearest **100**. [1]

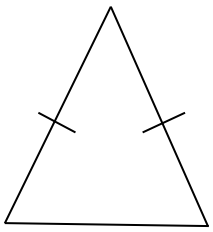
   .....

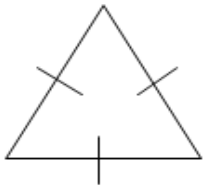
   (b) Write this number to the nearest **1000**. [1]

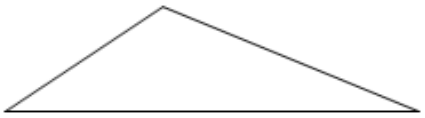
   .....

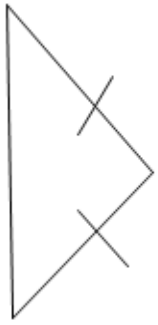
2. Using the words below, label the triangles. [3]
   You can use the words more than once.

   Scalene **Equilateral** **Isosceles**

   (a)  .....

   (b)  .....

   (c)  .....

   (d)  .....

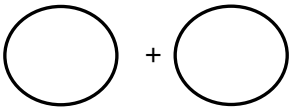
3. Work out.

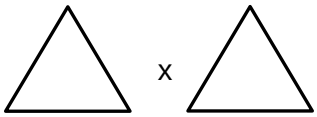
(a) $\frac{1}{3}$ of 15 = ... [1]

(b) $\frac{1}{10}$ of 80 = ... [1]

(c) $\frac{1}{4}$ of 24 = ... [1]

4. Fill in the missing numbers in the shapes below.

(a)  = 18 [1]

(b)  = 25 [1]

5. Say whether these things

will not happen **could happen** **will happen**

(a) You will drink something next week. [1]

.....

(b) You will fly to the moon tonight. [1]

.....

(c) You will fall and break your leg tomorrow. [1]

.....

(d) You will swim to America in one day. [1]

.....

6. What time is shown on the clock? [1]

.....

7. Ashmit does some shopping.[3]
The bill is shown below.

Item	Price
Shirt	£19·99
Jeans	£24·99
Trainers	£39·99

(a) Complete the table below with **estimated** prices. [2]

Item	**Estimated price**
Shirt	
Jeans	
Trainers	

(b) **Estimate** the **total cost** of Ashmit's shopping [1]

.....

.....

8. What is the value of these coins? [1]

.....

9. Work out:

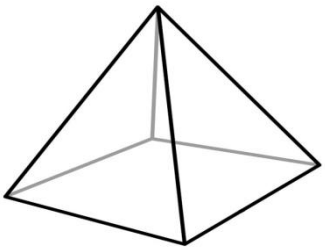
(a) 271 + 556 = [1]

.....
.....
.....
.....

(b) 752 − 418 = [1]

.....
.....
.....
.....

10. This is a square based pyramid.



Complete the following about a square based pyramid. [2]

A square based pyramid has ……. faces and …….. edges.

11. Choose one of the units given below to best describe each of the following:

mm, cm, m, km, g, kg

(a) 

The height of a ketchup bottle ..... [1]

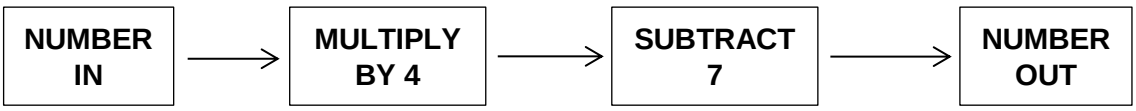
(b) 

The mass of a pound coin ..... [1]

(c) 

The length of a tennis court ..... [1]

12. This is a number machine.



(a) If the **NUMBER IN** is 9, find the **NUMBER OUT**. [1]

.....

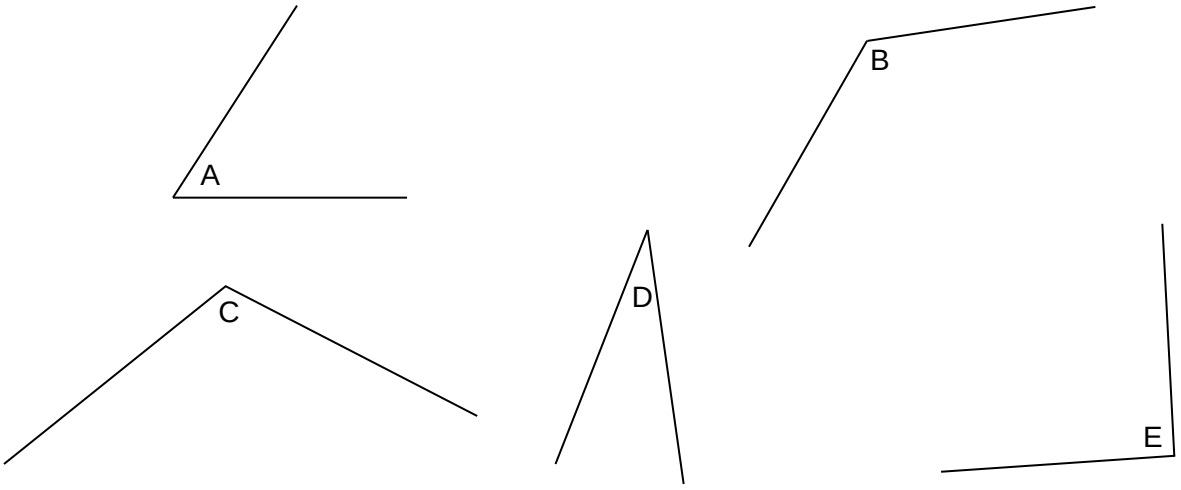
.....

(b) If the **NUMBER OUT** is 13, find the **NUMBER IN**. [1]

.....

.....

13. Look at the angles below.



Circle the correct answer for the following statements.

(a) The acute angles are [1]

A and B D and E D only B and C A and D

(b) The obtuse angles are [1]

A and B D and E D only B and C A and D

UNIT 2 ENTRY LEVEL CERTIFICATE MATHEMATICS– NUMERACY
SAMPLE ASSESSMENT MATERIALS
STAGE 2: MARK SCHEME

<table>
<tr><th></th><th></th><th>Mark</th><th>Comment</th></tr>
<tr><td>1.</td><td>(a) 32 700
(b) 33 000</td><td>B1
B1</td><td></td></tr>
<tr><td>2.</td><td>(a) Isosceles
(b) Equilateral
(c) Scalene
(d) Isosceles</td><td>B3
for all 4
correct.</td><td>B2 for 3 correct
B1 for 2 correct
B0 for 1 correct</td></tr>
<tr><td>3.</td><td>(a) 5
(b) 8
(c) 6</td><td>B1
B1
B1</td><td></td></tr>
<tr><td>4.</td><td>(a) 9 + 9
(b) 5 x 5</td><td>B1
B1</td><td></td></tr>
<tr><td>5.</td><td>(a) Will happen
(b) Will not happen
(c) Could happen
(d) Will not happen</td><td>B1
B1
B1
B1</td><td></td></tr>
<tr><td></td><td>PAGE TOTAL</td><td>14</td><td></td></tr>
<tr><td>6.</td><td>7:45 (Quarter to eight.)</td><td>B1</td><td>Or equivalent</td></tr>
<tr><td>7.</td><td>(a)
<table>
<tr><th>Item</th><th>Estimated price</th></tr>
<tr><td>Shirt</td><td>£ 20</td></tr>
<tr><td>Jeans</td><td>£ 25</td></tr>
<tr><td>Trainers</td><td>£ 40</td></tr>
</table>
(b) £ 85</td><td>B2
for all 3
correct.

B1</td><td>B1 for 2 correct
B0 for 1 correct</td></tr>
<tr><td>8.</td><td>72(p)</td><td>B1</td><td></td></tr>
<tr><td>9.</td><td>(a) 827
(b) 334</td><td>A1
A1</td><td></td></tr>
<tr><td>10.</td><td>has 5 faces and 8 edges.</td><td>B2
Both
correct.</td><td>B1 only one correct.</td></tr>
<tr><td></td><td>PAGE TOTAL</td><td>9</td><td></td></tr>
<tr><td>11.</td><td>(a) cm
(b) g
(c) m</td><td>B1
B1
B1</td><td>Accept attempt to write words in full.</td></tr>
<tr><td>12.</td><td>(a) 29
(b) 5</td><td>B1
B1</td><td></td></tr>
<tr><td>13.</td><td>(a) A and D
(b) B and C</td><td>B1
B1</td><td>Answers to be clearly indicated, accept ticks etc.</td></tr>
<tr><td></td><td>PAGE TOTAL</td><td>7</td><td></td></tr>
<tr><td></td><td>TOTAL FOR PAPER</td><td>30</td><td></td></tr>
</table>

Candidate Name	Centre Number					Candidate Number				

ENTRY LEVEL CERTIFICATE

UNIT 2

MATHEMATICS - NUMERACY STAGE 3

SAMPLE ASSESSMENT MATERIALS

30 minutes

CALCULATORS MAY BE USED FOR THIS PAPER.

For Internal assessor's use only		
Page	**Maximum Mark**	**Mark Awarded**
3.	10	
5.	10	
7.	6	
8.	4	
Total	30	

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*Answer **all** questions.*

1. Choose one of the units given below to best describe each of the following:

cm^3, ml, litre, seconds, minutes, hours, days

(a)  Amount in a can of drink ..... [1]

(b)  Time taken to fly to Spain ..... [1]

(c)  Time taken to eat an ice-cream ..... [1]

2. Fill in the next term in the sequence **and** write the rule for finding the next term in the sequence. [2]

37, 33, 29, 25, 21, ……..

Rule .....

3. Work out:

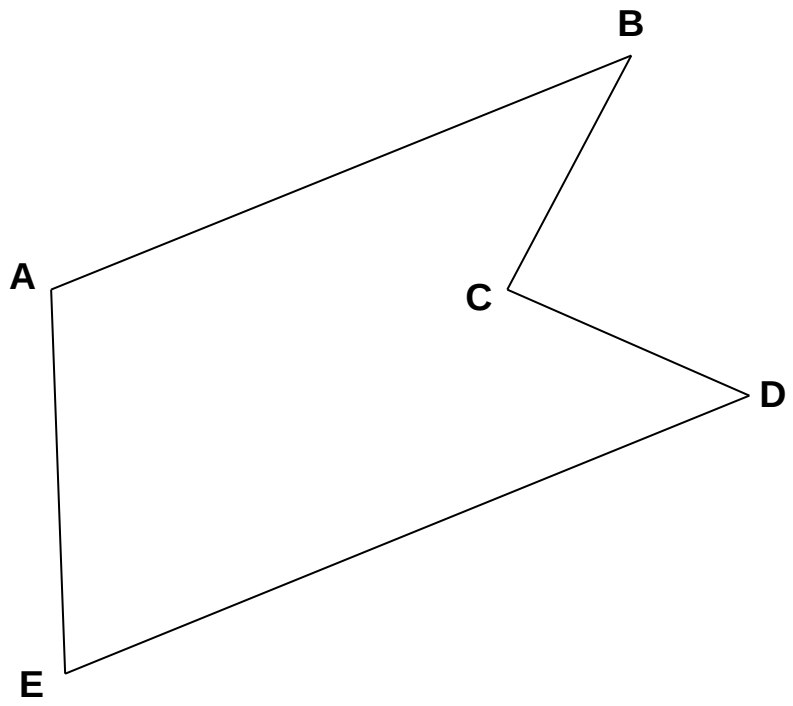
(a) $\frac{3}{5}$ of 20 = ... [1]

(b) $\frac{2}{7}$ of 35 = ... [1]

4. What is the value of 5 in the number 26·58 ? [1]

.....

5.



Circle the correct answer for the following statements.

(a) The parallel lines are [1]

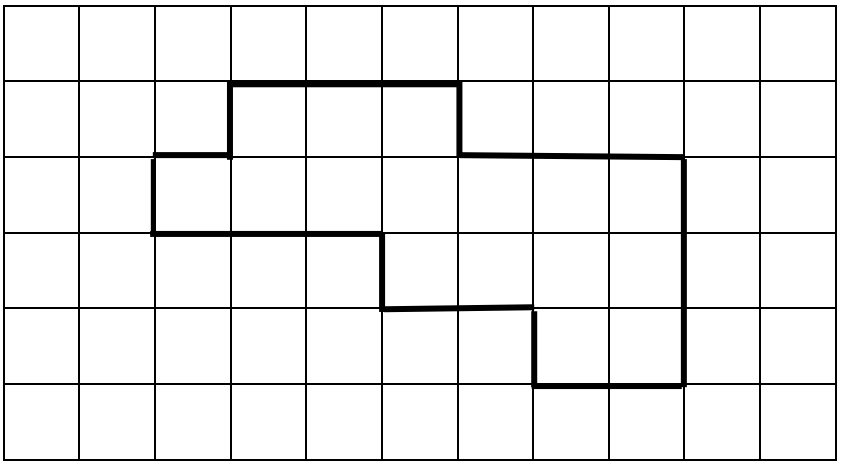
AE and BC CD and AB AB and DE BC and DE

(b) The perpendicular lines are [1]

CD and DE AB and AE AB and BC BC and CD

10

6. This shape is drawn on cm^2 paper.



What is the area of this shape? [1]

.....

7. Amber buys 8 buttons costing 9p each and a zip that costs 85p.
How much does she spend altogether? [2]

.....

.....

.....

8. Solve the equations:

(a) $5 + x = 13$ [1]

.....

.....

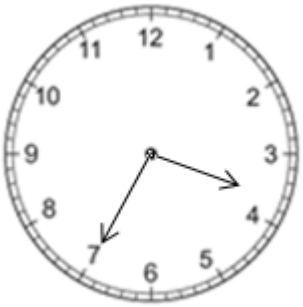
(b) $y - 4 = 11$ [1]

.....

.....

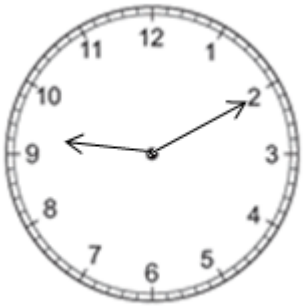
9. What time is shown on these clocks? [2]

(a)



.....

(b)

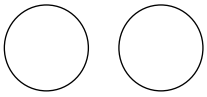
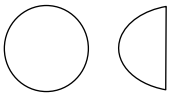


.....

10. A table and pictogram are used to show the number of goals scored by four footballers.

Pepa	Minster	Heydi	Smith
8	20		14

Key:  = 4 goals

Pepa	
Minster	
Heydi	
Smith	

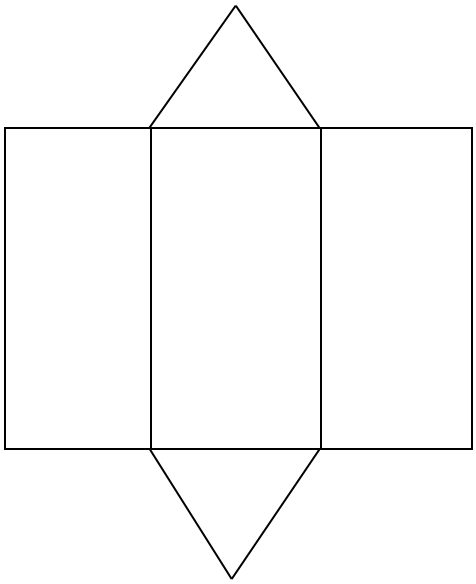
(a) How many goals did Heydi score? [1]

.....

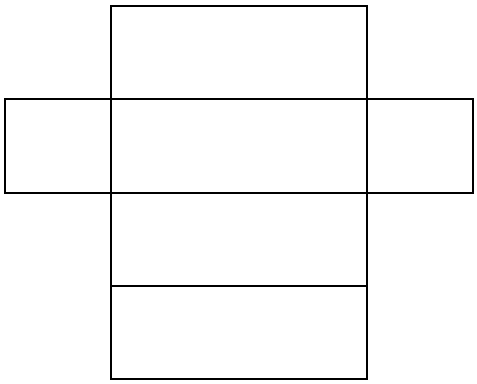
(b) Finish the pictogram for Minster and Smith. [2]

10

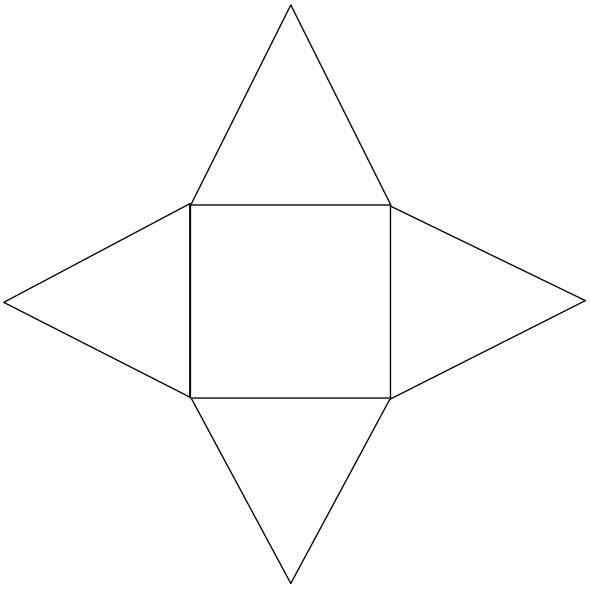
11. Match the net with its shape. [2]



Square based pyramid



Triangular prism

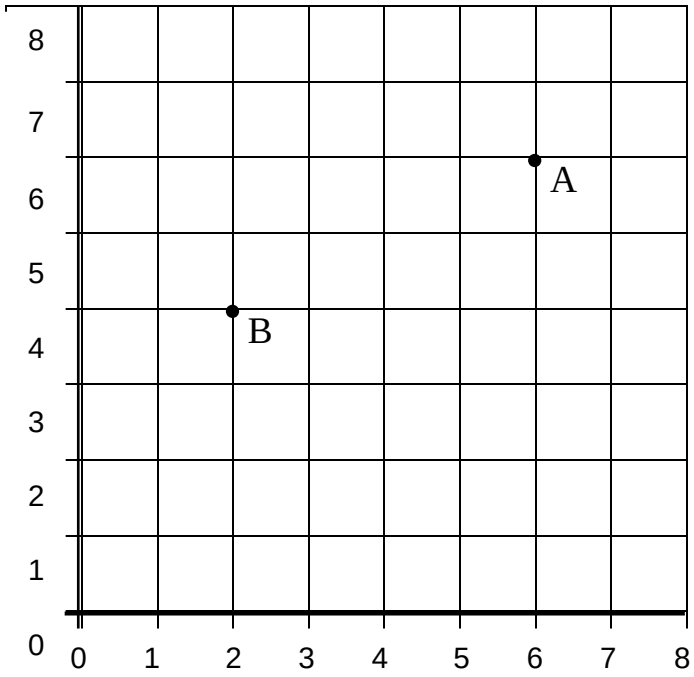


Cuboid

12. Give two factors of 12. [1]

..... and .....

13.



The co-ordinates of point **A** are (6 , 6).

(a) Write down the co-ordinates of point **B**. [1]

(…… , ……)

(b) Point **C** has co-ordinates (1 , 7).
Plot point **C**. [1]

14. Write these numbers in order of size, **starting with the smallest.** [1]

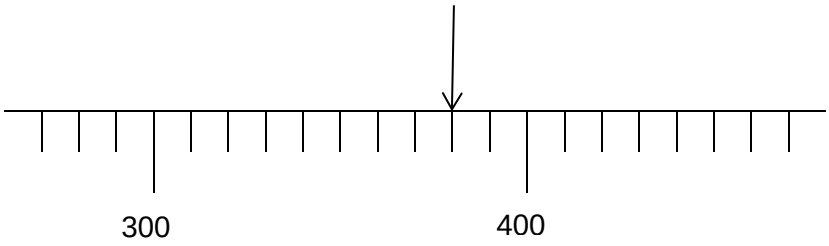
−9 5 11 −2 8

.....

6

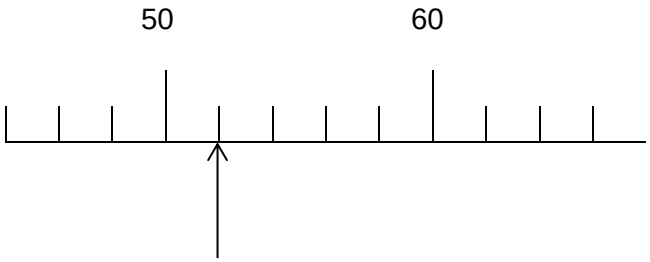
15. On each scale below the arrow is pointing to the mass (in g) on a scale.
Write down the mass shown on each scale. [2]

(a)



.....

(b)



.....

16. (a) There are 572 people going on a trip.
A bus will hold 44 people.

How many buses are needed? [1]

.....

.....

.....

(b) In a cinema there are 18 rows of seats.
Each row has 24 seats.

How many seats are there altogether? [1]

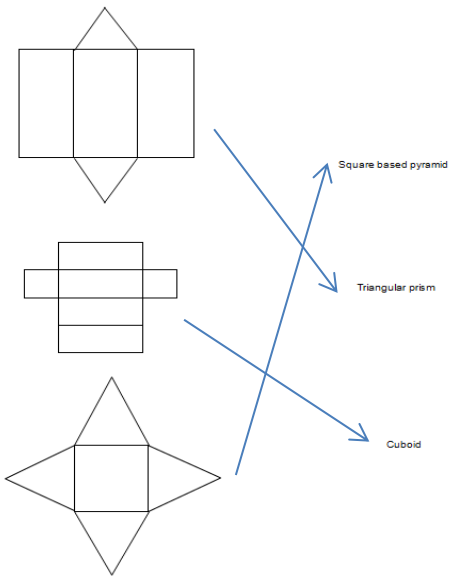
.....

.....

.....

4

UNIT 2 ENTRY LEVEL CERTIFICATE MATHEMATICS– NUMERACY
SAMPLE ASSESSMENT MATERIALS
STAGE 3: MARK SCHEME

		Mark	Comment
1.	(a) ml (b) hours (c) minutes	B1 B1 B1	
2.	17 Rule: takeaway 4	B1 B1	Or equivalent.
3.	(a) 12 (b) 10	A1 A1	
4.	5 tenths	B1	
5.	(a) AB and DE (b) BC and CD	B1 B1	
	PAGE TOTAL	10	
6.	16 (cm^2)	B1	
7.	8 x 9 + 85 = 157 (p)	M1 A1	Sight of 8x9 or 72 Accept £1·57
8.	(a) (x =) 8 (b) (y =) 15	B1 B1	
9.	(a) 3:35 or 25 to 3 (b) 9:10 or 10 past 9	B1 B1	
10.	(a) 6 (goals) (b) Minster: 5 circles Smith: 3½ circles	B1 B1 B1	
	PAGE TOTAL	10	
11.		B2 2 or 3 correct	B1 only one correct

12.	Any two from: 1, 2, 3, 4, 6, 12.	B1	They do not have to be factor pairs.
13.	(a) (2 , 4) (b) Point correctly plotted	B1 B1	 Point to be clearly indicated.
14.	-9 -2 5 8 11	B1	
	PAGE TOTAL	6	
15.	(a) 380 (g) (b) 52 (g)	B1 B1	
16.	(a) 13 (buses) (b) 432 (seats)	B1 B1	
	PAGE TOTAL	4	
	TOTAL FOR PAPER	30	

Candidate Name	Centre Number					Candidate Number				

ENTRY LEVEL CERTIFICATE

UNIT 2

MATHEMATICS - NUMERACY STAGE 4

SAMPLE ASSESSMENT MATERIALS

30 minutes

CALCULATORS MAY BE USED FOR THIS PAPER.

For Internal assessor's use only		
Page	**Maximum Mark**	**Mark Awarded**
3.	9	
5.	11	
7.	10	
Total	30	

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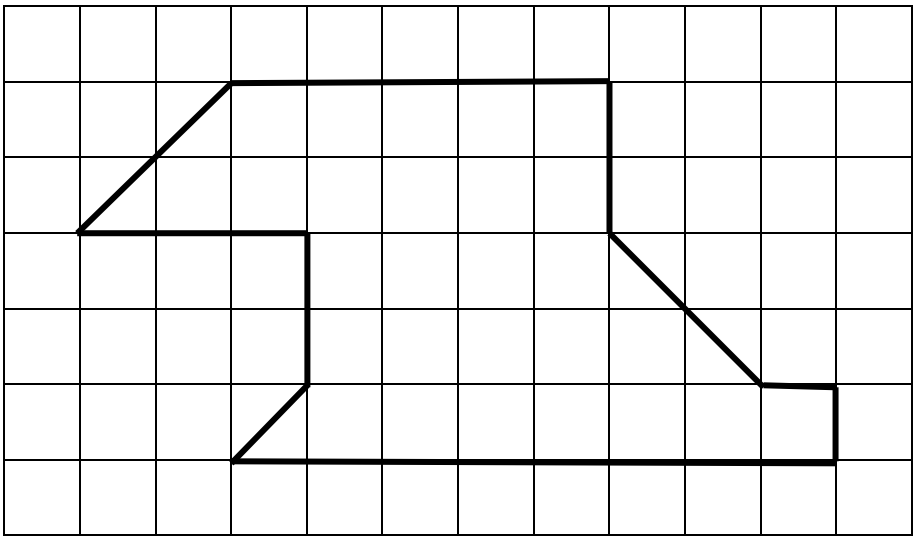
*Answer **all** questions.*

1. This shape is drawn on cm^2 paper.



What is the area of this shape? [3]

.....

.....

.....

2. Work out

(a) 50% of 34 [1]

.....

.....

(b) 75% of 84 [1]

.....

.....

3. Solve the equation:

$3x = 24$ [1]

.....

.....

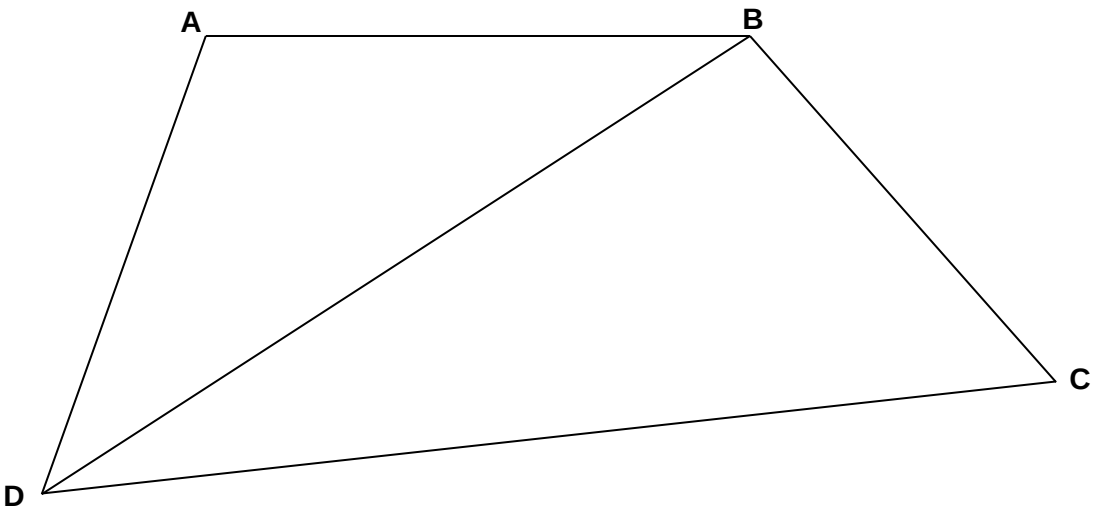
4. Bryan buys 4 pairs of these trousers.
How much does he spend? [2]

£26·95

.....

.....

5.



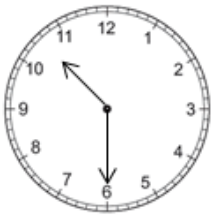
Measure the line **BD**. [1]

.....

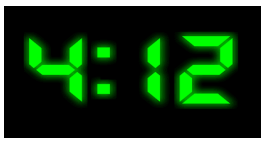
.....

9

6. (a) The clocks below both show times in the morning.
Write the time using a.m. or p.m.

(i)  [1]

.....

(ii)  [1]

.....

(b) The clocks below both show times in the afternoon or evening.

(i)  [1]

.....

(ii)  [1]

.....

7. Mrs Jones is making cakes.
Each cake needs 4 eggs.
She has 19 eggs.

How many cakes can Mrs Jones make? [2]

.....

.....

.....

.....

8. Write these numbers in order, start with the smallest.

(a) 7·39 7·04 7·4 7·2 [1]

.....

…… …… …… ……

(b) 2·8 2·58 2·17 2·91 [1]

.....

…… …… …… ……

9. Calculate the perimeter of this rectangle. [1]

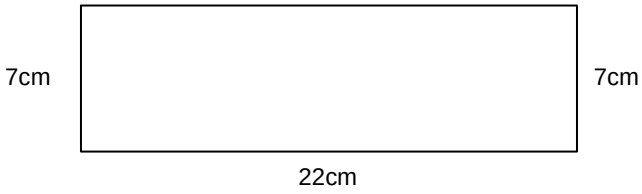


Diagram is not drawn to scale.

.....

.....

10. Complete the two way table. [2]

	Men	Women	Total
Red cars	17		25
Blue cars		11	15
Total	21	19	

11

11. Look at this list of numbers.

7 5 10 13 9 7 2

Circle the correct answer for the following statements.

(a) The range is [1]

5 9 7 13 11

(b) The mode is [1]

5 9 7 13 11

12. This is the bus timetable from Oldtown to Eastgrove.

	Bus A	Bus B	Bus C
Oldtown	09:15	10:30	11:20
Sandley	09:40	10:55	11:45
Meyint	09:50	11:05	
Eastgrove	10:10	11:30	12:25

(a) Which bus does not stop at Meyint? [1]

.....

(b) Using Bus B, how long is the journey from Sandley to Eastgrove? [1]

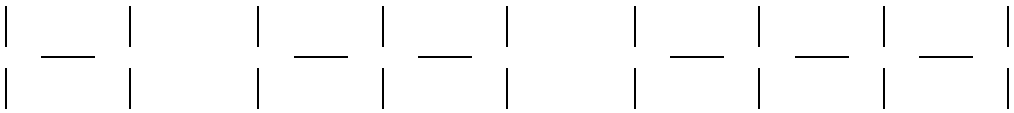
.....

(c) Jason arrives at the bus stop in Meyint at 09:35.
How long does he have to wait for the next bus? [1]

.....

13. Rina made some patterns using sticks.

Pattern 1 Pattern 2 Pattern 3



(a) Draw pattern 4. [1]

(b) Complete the table to show the number of sticks used. [1]

	Pattern 1	Pattern 2	Pattern 3	Pattern 4
Number of sticks used	5			14

(c) How many sticks will be needed to make pattern 5? [1]

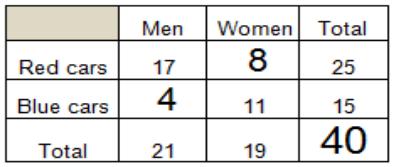
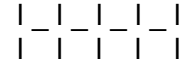
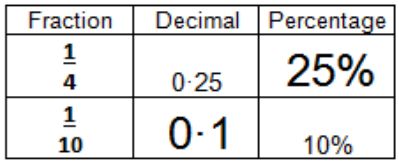
.....

14. Complete the table. [2]

Fraction	Decimal	Percentage
	0·25	
		10%

10

UNIT 2 ENTRY LEVEL CERTIFICATE MATHEMATICS– NUMERACY
SAMPLE ASSESSMENT MATERIALS
STAGE 4: MARK SCHEME

Question		Mark	Comment
1.	27 'whole squares' 5 half squares, so 2½ 'whole squares' Area of shape = 29½ (cm^2)	B1 B1 A1	Sight of 27 Sight of 2½
2.	(a) 17 (b) 63	B1 B1	
3.	(x =) 8	B1	
4.	4 x 26·95 = (£) 107·80	M1 A1	Accept 10780p
5.	11·2 (cm)	B1	Accept 112 (mm) Printer/copier may distort. Accept ± 2 mm
	PAGE TOTAL	9	
6.	(a) (i) 10:30 a.m. (ii) 4:12 a.m. (b) (i) 6:50 p.m. (ii) 2:28 p.m.	B1 B1 B1 B1	
7.	19 ÷ 4 = 4·75 (She can make) 4 (cakes)	M1 A1	
8.	(a) 7·04 7·2 7·39 7·4 (b) 2·17 2·58 2·8 2·91	B1 B1	
9.	58 (cm)	B1	
10.		B2 for all correct	B1 for any two correct
	PAGE TOTAL	11	
11.	(a) 11 (b) 7	B1 B1	
12.	(a) Bus C (b) 35 minutes (c) 15 minutes	B1 B1 B1	
13.	(a)  (b) 8 11 (c) 17 (sticks)	B1 B1 B1	Both values required
14.		B2 for all 4 correct.	B1 for any two correct.
	PAGE TOTAL	10	
	TOTAL FOR PAPER	30	

UNIT 3: PRACTICAL ASSESSMENTS

15% of qualification.

Total marks available: 40

There are four practical assessments, one to go with each stage.

Each is internally assessed and awarded a mark out of 10.

Stage 1 - Data Handling.

Pupils are required to carry out a survey, record the results, display the results with a bar chart and make two statements about their results.

Possible surveys: What is your favourite snack?
Favourite flavour of crisp.

Stage 2 - Using money.

Pupils are required to work with money: identify and make amounts of money using coins and notes.
calculate change from £1,
calculate change from £10.

Stage 3 - Working with measures.

Pupils are required to be familiar with units for measuring length, weight and capacity. They need to be able to: measure the lengths, weigh and find the capacity of everyday objects,
give reasonable estimates of lengths, weights and capacities,
read different scales.

Stage 4 - Drawing 2-D representations of 3-D shapes.

Pupils are required to draw the top view (or plan), side view and front view of shapes made from multi-link cubes.

STAGE 1 – PRACTICAL TASK MARK SCHEME

DATA HANDLING

Carrying out a survey	**3**
Suitable question (and answers). At least 20 responses collected. Table of results: tallies correctly recorded and totals given.	1 mark 1 mark 1 mark
Data display	**5**
Uniform scale on vertical axis. Frequency label on vertical axis. Labelling of horizontal axis (will accept labels on bars.) Bars of correct height drawn. Title given to graph.	1 mark 1 mark 1 mark 1 mark 1 mark
Interpretation	**2**
Two correct statements about their data.	1 mark each
	Total marks: 10

STAGE 2 – PRACTICAL TASK MARK SCHEME

USING MONEY

Identifying different sums of money	**2**
Identify four different amounts of money up to £10.00, using a combination of coins and notes.	Any 2 correct: 1 mark All 4 correct: 2 marks
Making different sums of money 1	**2**
Make four different amounts of money up to £10.00, using a combination of coins and notes.	Any 2 correct: 1 mark All 4 correct: 2 marks
Making different sums of money 2	**2**
Give an example of making the same amount of money in two different ways. Amount to be less than £1. Give an example of making the same amount of money in two different ways. Amount to be between £1 and £2.	1 mark 1 mark
Change from £1	**2**
Give two examples of calculating the change due from £1 after paying for an item that is a multiple of 10p e.g. 40p, 70p. Give two examples of calculating the change due from £1 after paying for an item that is not a multiple of 10p e.g. 28p, 91p.	1 mark 1 mark
Change from £10	**2**
Give two examples of calculating the change due from £10 after paying for an item that is a multiple of £1 e.g. £6, £2. Give two examples of calculating the change due from £10 after paying for an item that is not a multiple of £1 e.g. £5.40, £8.20.	1 mark 1 mark
	Total marks: 10

STAGE 3 – PRACTICAL TASK MARK SCHEME

WORKING WITH MEASURES

Identifying appropriate units for measurements	**2**
Identify different standard units to measure: Two lengths/heights, two masses and two capacities.	Any 3 correct: 1 mark All 6 correct: 2 marks
Estimating	**3**
Estimate using standard **metric** units of measure: Two lengths/heights, two masses and two capacities.	Any 2 correct: 1 mark Any 4 correct: 2 marks All 6 correct: 3 marks
Measuring	**3**
Use an appropriate measuring instrument to measure: Two lengths/heights, two masses and two capacities.	Any 2 correct: 1 mark Any 4 correct: 2 marks All 6 correct: 3 marks
Reading scales	**2**
Reading scales to the nearest labelled division: Two scales read to one decimal place. Two scales that do not increase by 1 or 10 each time.	Any 2 correct: 1 mark All 4 correct: 2 marks
	Total marks: 10

STAGE 4 – PRACTICAL TASK MARK SCHEME

DRAWING 2-D REPRESENTATIONS OF 3-D SHAPES

Shapes to made from multi-link cubes.

Cuboids	**4**
Draw the top view (or plan), side view and front view of two cuboids. Cuboid one to be made from at least two different colours. Cuboid two to be made from at least three different colours.	Only 1 view correct: 1 mark All three views correct: 2 marks Only 1 view correct: 1 mark All three views correct: 2 marks
L- shaped prism	**3**
Draw the top view (or plan), side view and front view of an L-shaped prism made from at least three different colours.	1 mark each correct view.
T-shaped prism	**3**
Draw the top view (or plan), side view and front view of a T-shaped prism made from at least three different colours.	1 mark each correct view.
	Total marks: 10