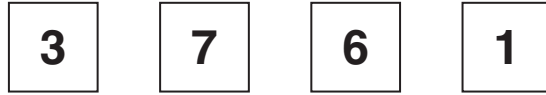


Answer **all** questions in the spaces provided.

- 1 Here are four number cards.



The number shown is 3761

- 1 (a) (i) Use all four cards to write down the smallest number.

(1 mark)

- 1 (a) (ii) Use all four cards to write down the largest **even** number.

(2 marks)

- 1 (b) Use all four cards to make a correct addition.

$$\square + \square = \square \square$$

(1 mark)

- 1 (c) You need a fifth number card to show the answer to  $13 \times 6$

Write down the fifth number card.

.....

.....

.....

(1 mark)

5

Turn over ►



2 Ellie has ten coins in her pocket.



2 (a) Show **one** way she can make a total of £1.80 using these coins.

.....

Answer ..... (1 mark)

2 (b) There are **four** different ways she can make a total of £2.50 using these coins.

Here is one way.

£1 50p 50p 20p 10p 10p 10p

List the other three ways.

.....

Answer 1 .....

.....

Answer 2 .....

.....

Answer 3 .....

(3 marks)



**2 (c)** Can Ellie split her coins into **two** piles so that both piles total the same amount of money?

Tick the correct box.    
Yes No

You **must** show your working.

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

(2 marks)

**3** Mr and Mrs Morris take their children to a theme park.

Admission Price	
ADULT	£8.50
CHILD	£5.50

The cost of admission for the family is £33.50

How many children do they take?

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

Answer ..... (3 marks)

**Turn over for the next question**



**4** Here is a list of numbers.

5    7    12    13    18    24    25    27

From the list,

**4 (a)** write down the number that is a multiple of 8

Answer ..... (1 mark)

**4 (b)** write down the number that is a factor of 28

Answer ..... (1 mark)






**4 (c)** write down the number that is a multiple of 9 and a factor of 36

Answer ..... (1 mark)



- 5 In a survey, a group of children were asked: 'What is your favourite type of TV programme?'

The pictogram shows some of the results.

Sport	
Films	
Comedy	
Soaps	
Other	

Key:  represents 4 children

- 5 (a) How many children chose Soaps?


.....

Answer ..... (1 mark)

- 5 (b) How many more children chose Sport than Comedy?

.....

Answer ..... (1 mark)

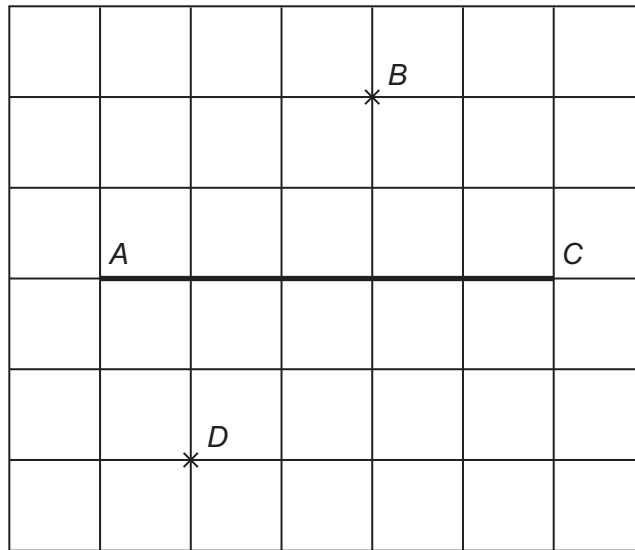
- 5 (c) Give one disadvantage in using the symbol  to represent 4 children.

.....

..... (1 mark)



6 AC is a straight line.



6 (a) Draw a line that is parallel to AC and passes through B. (1 mark)

6 (b) Draw a line that is at right angles to AC and passes through D. (1 mark)

6 (c) Mark with a cross, the point that is half-way between C and D. Label the point E. (1 mark)

7 Here is a sequence of numbers.

35    30    25    20    15

7 (a) Write down the next number in the sequence.  
Answer ..... (1 mark)

7 (b) Write down the rule for continuing the sequence.  
Answer ..... (1 mark)

7 (c) Which of the following expressions is the  $n$ th term of the sequence?  
Circle the correct answer.

$5n + 30$                    $5n - 40$                    $30 - 5n$                    $40 - 5n$

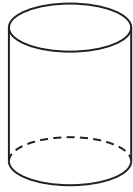
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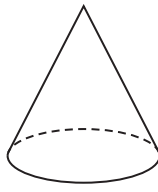
(1 mark)



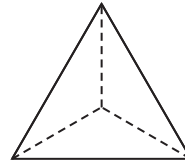
8 Here are five solid shapes.



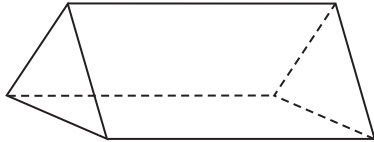
A



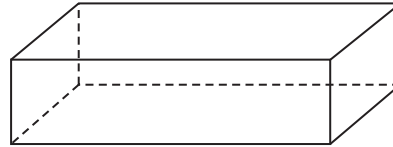
B



C



D



E

8 (a) (i) What name is given to shape A?

Answer ..... (1 mark)

8 (a) (ii) What name is given to shape B?

Answer ..... (1 mark)

8 (b) How many edges does shape C have?

Answer ..... (1 mark)

8 (c) How many faces does shape D have?

Answer ..... (1 mark)

8 (d) Shape E is a cuboid.  
All the faces are rectangles.

How many planes of symmetry does shape E have?

Answer ..... (1 mark)



**9** There are 800 students at Abbey High School.  
120 of these students are on a school trip.

**9 (a)** Work out the number of students who are **not** on the trip.

.....  
.....

Answer ..... (1 mark)

**9 (b)** Sally says that more than 20% of the students are on the trip.

Is she correct?  
Tick a box.

Yes No

Show working to support your answer.

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

(2 marks)

**10** A school shop buys pens for 30p each.  
The shop sells them for 50p each.  
The shop makes £7 profit.

How many pens does the shop buy?

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

Answer ..... (3 marks)





11 The values of some expressions for  $x = 4$  and  $x = 7$  are shown.

Expression	Value when $x = 4$	Value when $x = 7$
$x^2$	16	
$2x$		14
	9	12

11 (a) Fill in the **three** missing entries.

.....  
 .....  
 ..... (3 marks)

11 (b) Work out the value of  $x^2 + 3x + 5$  when  $x = 4$

.....  
 .....  
 Answer ..... (2 marks)

12 (a) (i) Round the number 6.518 to one decimal place.

Answer ..... (1 mark)

12 (a) (ii) Round the number 6.518 to two decimal places.

Answer ..... (1 mark)

12 (b) Write down the value of  $10^2$

Answer ..... (1 mark)

12 (c) Write down the value of  $\sqrt{144}$

Answer ..... (1 mark)

12 (d) Tom says that 6 is a cube number because  $2^3 = 6$

Why is Tom wrong?

.....  
 ..... (1 mark)

