

Answer ALL TWENTY SEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 Here are four cards.  
Each card has a number written on it.



These four cards are arranged to make the number 3457

- (a) Arrange the four cards to make the largest possible even number.



(1)

Darren arranges the cards to make another number.

The difference between the number 3600 and the number that Darren makes is as small as possible.

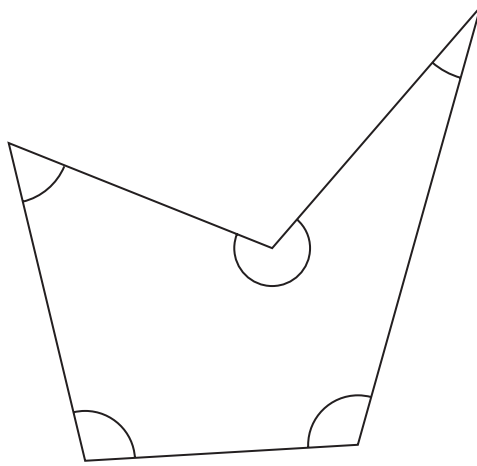
- (b) Find this difference.

.....  
(2)

(Total for Question 1 is 3 marks)



2 Here is a 5-sided polygon.



(a) Write down the mathematical name for a 5-sided polygon.

.....  
(1)

(b) On the diagram, mark with a letter *A* an acute angle.

(1)





(c) On the diagram, mark with a letter *R* a reflex angle.

(1)

**(Total for Question 2 is 3 marks)**



- 3 The pictogram shows information about the number of loaves of bread sold in a bakery each day from Tuesday to Friday last week.

<b>Monday</b>	
<b>Tuesday</b>	
<b>Wednesday</b>	
<b>Thursday</b>	
<b>Friday</b>	

**Key:**  represents 6 loaves of bread

- (a) How many loaves of bread were sold on Friday?

.....  
(1)

The total number of loaves sold in the bakery from Monday to Friday last week was 66

- (b) (i) Work out the number of loaves sold on Monday last week.

.....  
(2)

- (ii) Show this information for Monday on the pictogram.

.....  
(1)

**(Total for Question 3 is 4 marks)**



4 (a) Write 0.7 as a fraction.

.....  
(1)

(b) Write a number in the box so that the following statement is correct.

$\frac{3}{4}$  and  $\frac{\square}{20}$  are equivalent fractions.

(1)

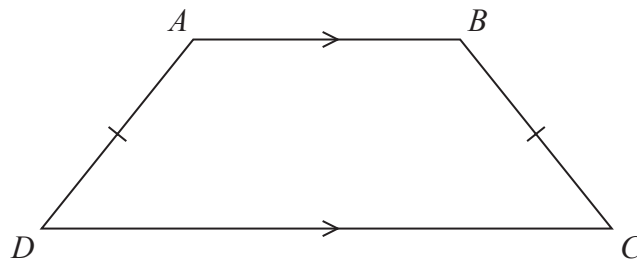
(c) Work out  $\frac{3}{5}$  of 35

.....  
(2)

(Total for Question 4 is 4 marks)



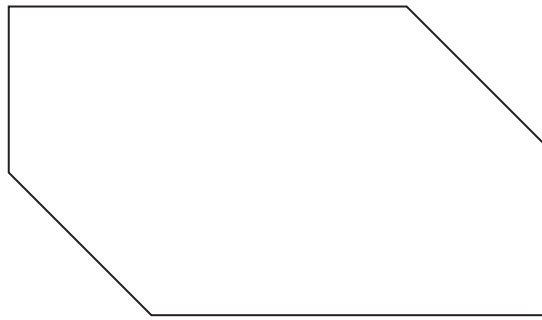
- 5 The diagram shows the trapezium  $ABCD$



- (a) How many lines of symmetry has  $ABCD$ ?

.....  
(1)

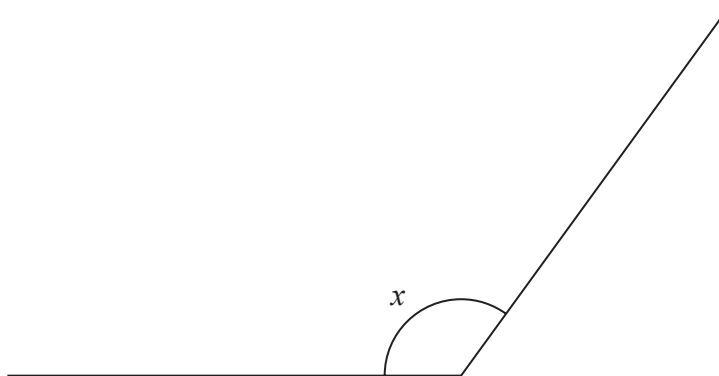
Here is another shape.



- (b) Write down the order of rotational symmetry of this shape.

.....  
(1)

- (c) Find, by measuring, the size of the angle marked  $x$



.....  
(1)

(Total for Question 5 is 3 marks)



6 Here is a list of seven numbers.

5    16    23    27    50    160    240

(a) From the numbers in the list, write down

(i) a cube number

.....  
(1)

(ii) a factor of 80

.....  
(1)

Two numbers in the list are prime numbers.

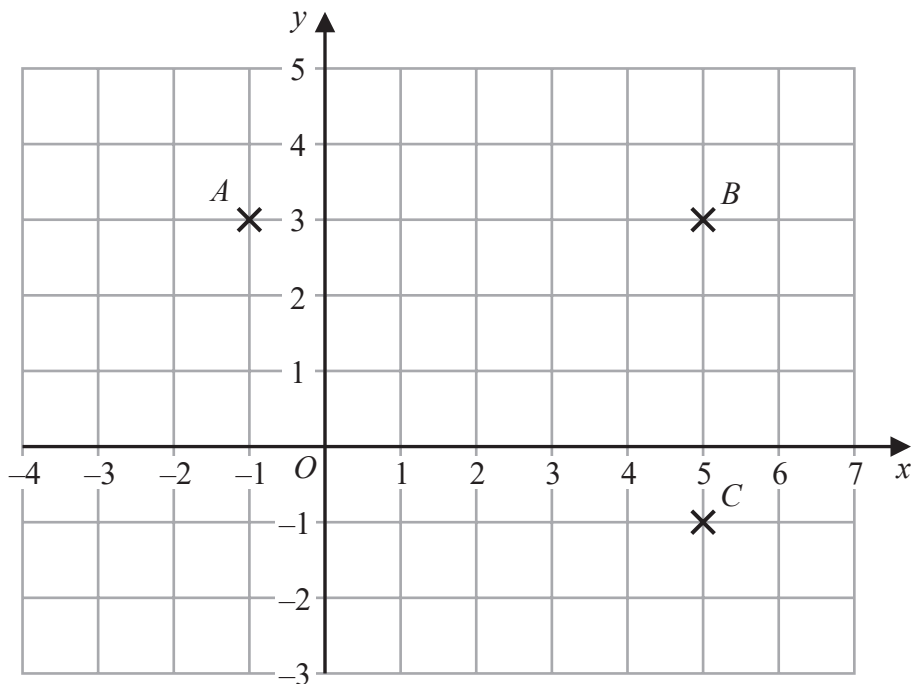
(b) Work out the sum of these two prime numbers.

.....  
(2)

**(Total for Question 6 is 4 marks)**



7 The three points  $A$ ,  $B$  and  $C$  are marked on a centimetre grid.



(a) Write down the coordinates of  $A$

(....., .....)  
(1)

(b) Find the coordinates of the midpoint of  $BC$

(....., .....)  
(2)

(c) Work out the area of triangle  $ABC$

.....  $\text{cm}^2$   
(2)

$D$  is the point on the grid so that  $ABCD$  is a rectangle.

(d) On the grid, mark with a cross ( $\times$ ) the point  $D$   
Label this point  $D$

(1)

(Total for Question 7 is 6 marks)



8 Masie is told that  $13\,203 \div 27 = 489$

Explain how she can use this calculation to work out  $489 \times 28$

.....

.....

.....

(Total for Question 8 is 2 marks)

9 (a) Simplify  $6p + 2t + p - 3t$

.....  
(2)

$$A = 8x - 3y$$

(b) Work out the value of  $A$  when  $x = 5$  and  $y = 4$

$A =$  .....  
(2)

(Total for Question 9 is 4 marks)





10

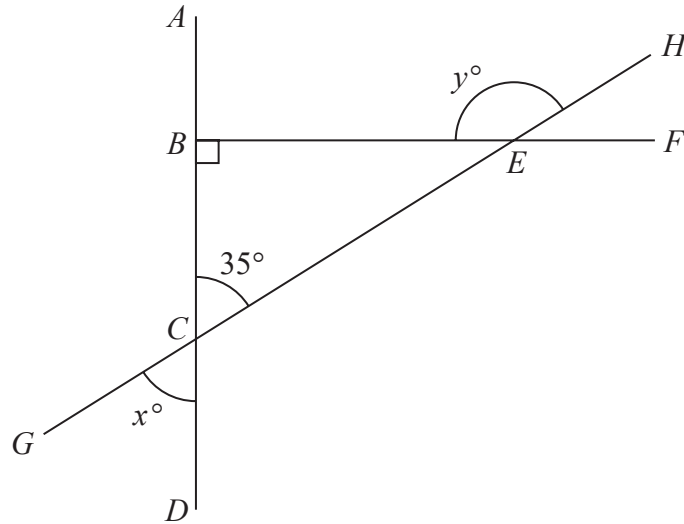


Diagram NOT accurately drawn

In the diagram,  $BCE$  is a right-angled triangle.  
 $ABCD$ ,  $BEF$  and  $GCEH$  are straight lines.

Angle  $BCE = 35^\circ$

(a) (i) Find the value of  $x$

$x = \dots\dots\dots$   
(1)

(ii) Give a reason for your answer.

.....  
(1)

(b) (i) Work out the value of  $y$

$y = \dots\dots\dots$   
(2)

(ii) Give a reason for your answer.

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

(Total for Question 10 is 5 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

