Properties of Shape Difficulty: Easy

Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Geometry
Sub-Topic	Properties of Shape
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 1

Time allowed: **20minutes**

Score: **/16**

Percentage: **/100**

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

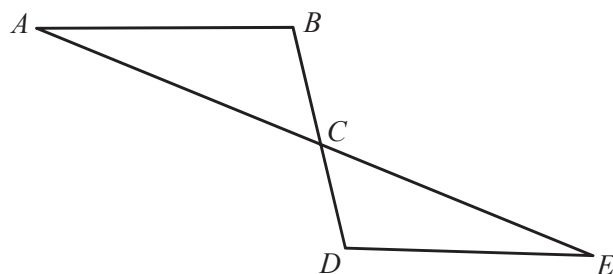| 9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

A quadrilateral has rotational symmetry of order 2 and no lines of symmetry.

Write down the mathematical name of this quadrilateral. [1]

Question 2

NOT TO SCALE

The diagram shows two straight lines, *AE* and *BD*, intersecting at *C*.
Angle *ABC* = angle *EDC*.
Triangles *ABC* and *EDC* are congruent.

Write down **two** properties of line segments *AB* and *DE*.

[2]

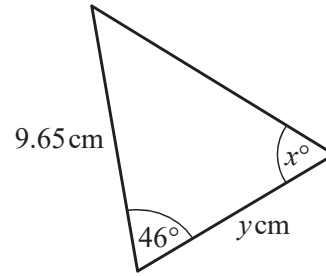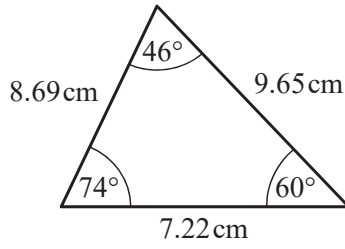# Z E B R A

Write down the letters in the word above that have

(a) exactly one line of symmetry,   [1]

(b) rotational symmetry of order 2.   [1]

NOT TO SCALE

These two triangles are congruent.
Write down the value of

(a) *x*,   [1]

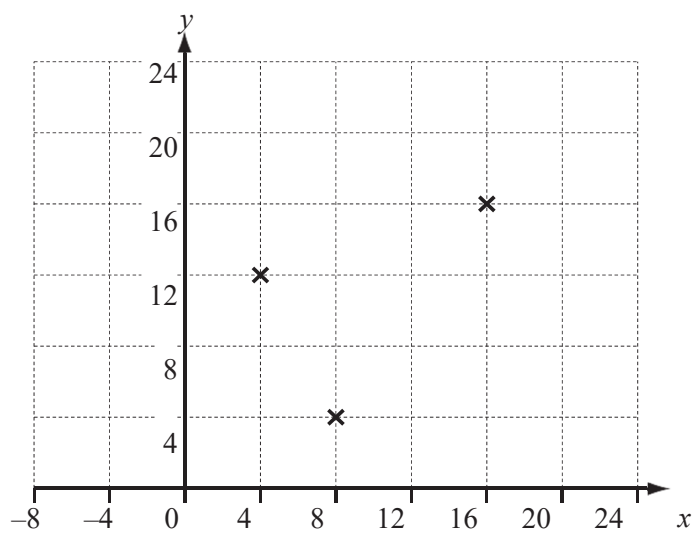**(b)** *y*.   [1]

Three of the vertices of a parallelogram are at (4, 12), (8, 4) and (16, 16).

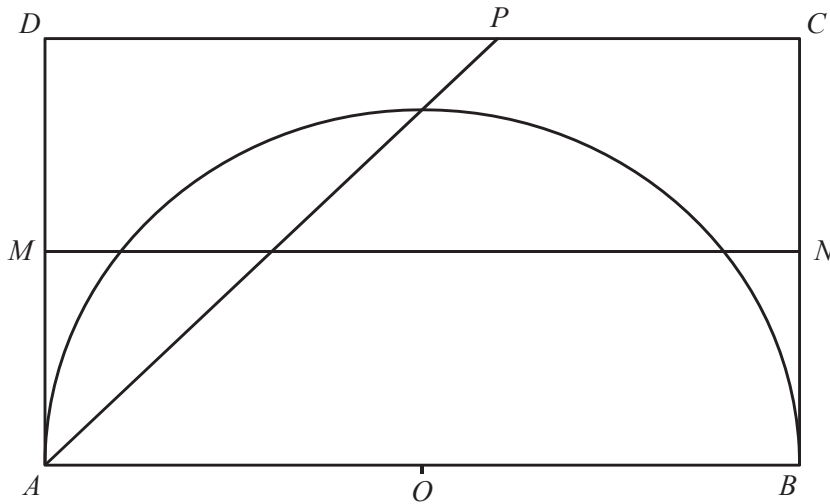Write down the co-ordinates of two possible positions of the fourth vertex. [2]

ABCD is a rectangle with *AB* = 10 cm and *BC* = 6cm. *MN* is the perpendicular bisector of *BC*.

AP is the bisector of angle *BAD*.

O is the midpoint of *AB* and also the centre of the semicircle, radius 5 cm.
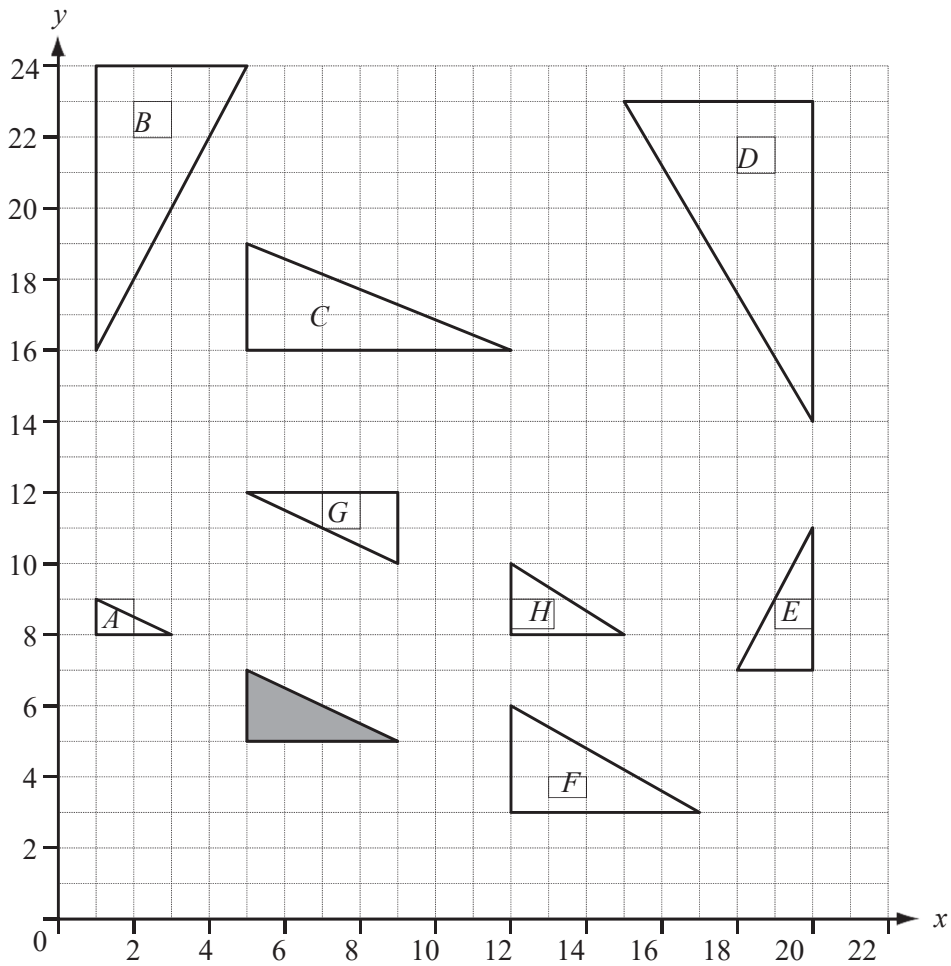

Write the letter *R* in the region which satisfies **all** three of the following conditions.

-     nearer to *AB* than to *AD*
-     nearer to *C* than to *B*
-     less than 5 cm from *O*

[3]

Write down the letters of all the triangles which are

(a) congruent to the shaded triangle,

[2]

(b) similar, but not congruent, to the shaded triangle.

[2]