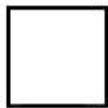
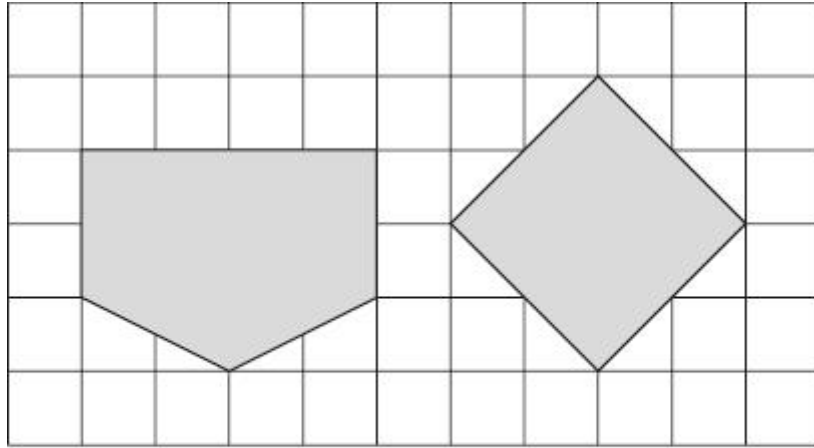


Q1.

Here are two shapes on a square grid.

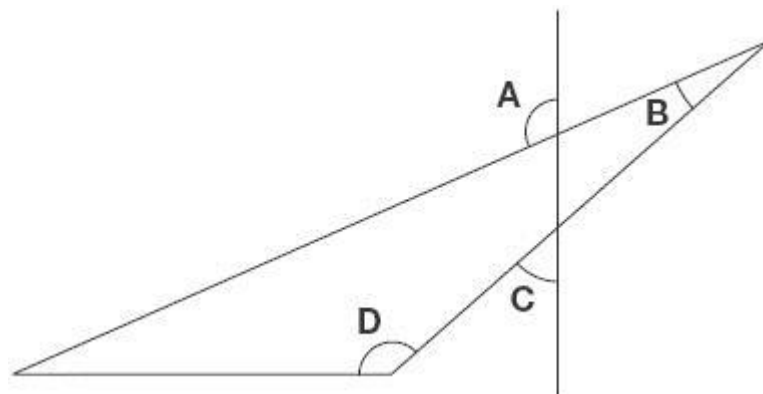
For each shape, write how many **right angles** it has.



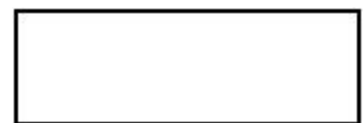
1 mark

Q2.

This diagram has four angles marked **A**, **B**, **C** and **D**.



Write the letters of the angles that are **obtuse** angles.

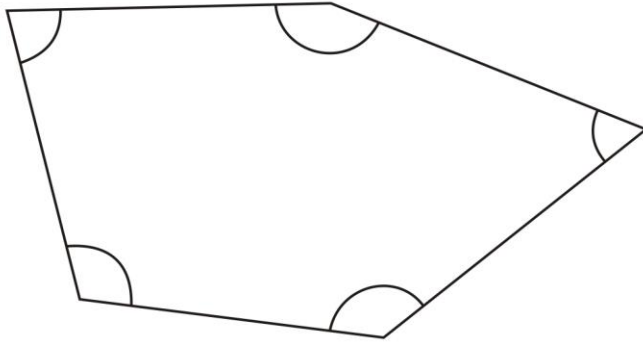


1 mark

Q3.

Look at this shape.

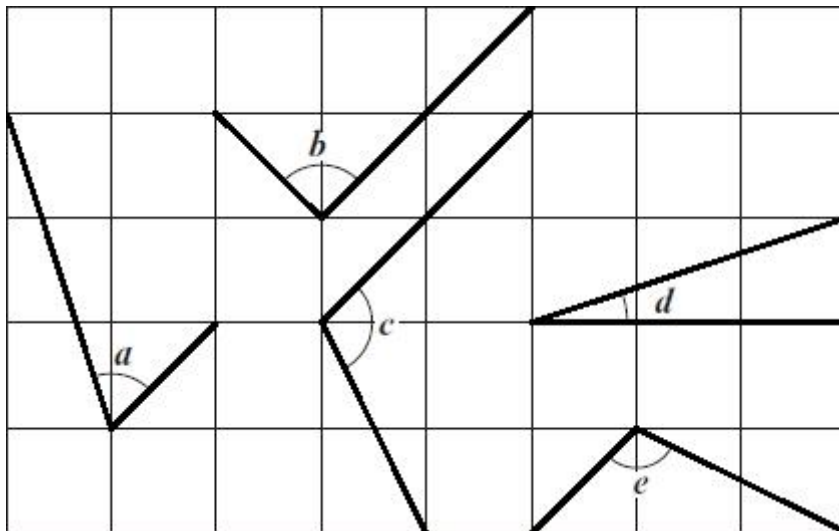
Tick (✓) each angle that is **less** than a right angle.



1 mark

Q4.

Here are five angles marked on a grid of squares.



Write the letters of the angles that are **obtuse**.

_____ 1 mark

Write the letters of the angles that are **acute**.

_____ 1 mark

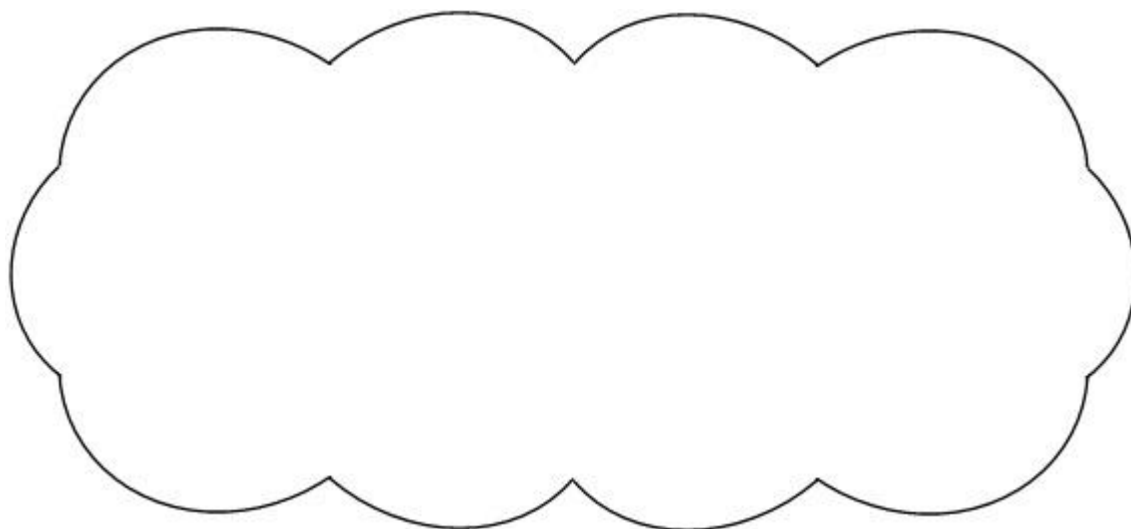
Q5.

Kirsty says,



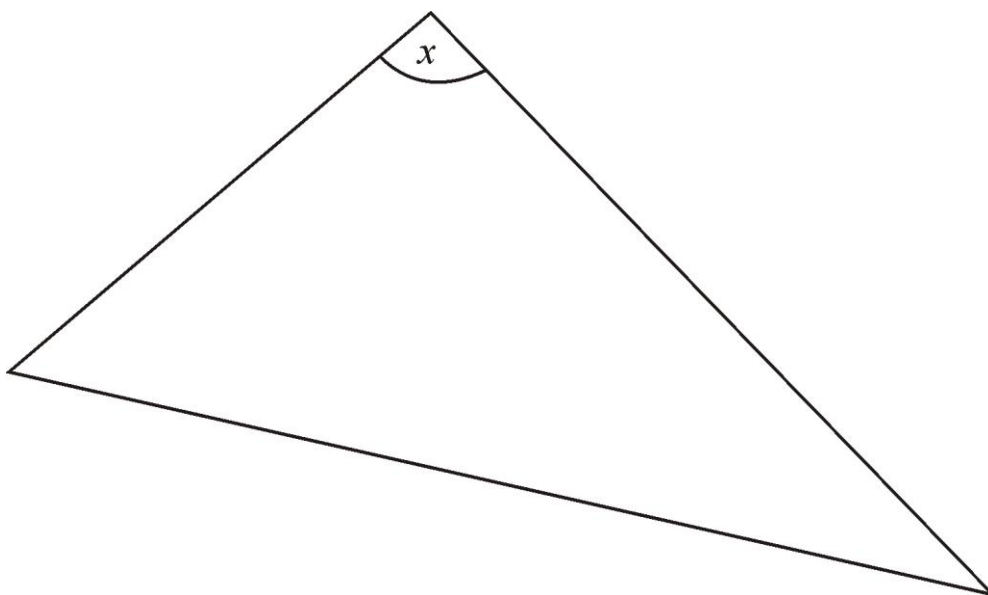
When you double the size of an acute angle, you always get an obtuse angle.

Explain why Kirsty is **not** correct.



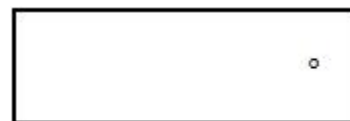
1 mark

Q6.



Measure angle x accurately.

Use a protractor (angle measurer).

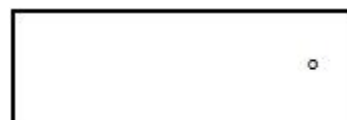
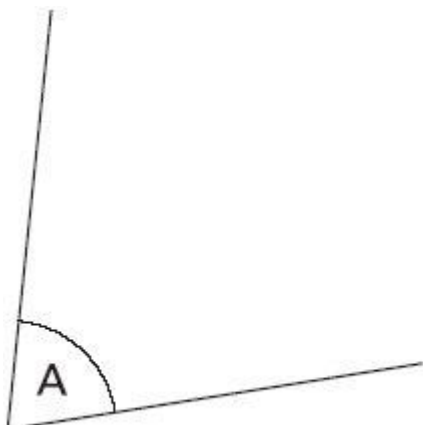


1 mark

Q7.

Measure **angle A** accurately.

Use a protractor (angle measurer).



angle A

1 mark

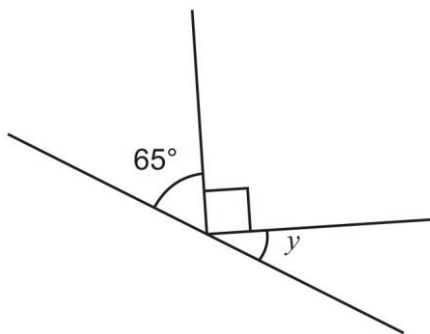
Q8.

Join dots on the grid to make a quadrilateral that has **3 acute** angles.



1 mark

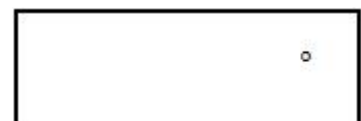
Q9.



Not to scale

Calculate the size of angle y in this diagram.

Do **not** use a protractor (angle measurer).



1 mark

Mark schemes

Q1.

2 AND 4

Accept alternative unambiguous indications, eg right angles marked on diagrams.

[1]

Q2.

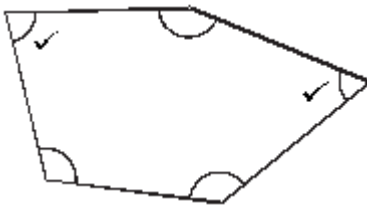
A AND D

Letters may be given in either order.

[1]

Q3.

Two angles ticked as shown:



Do not award the mark if additional incorrect angles are ticked.

Accept alternative unambiguous indications of the correct angles, eg angles circled.

[1]

Q4.

(a) c AND e

Letters may be given in either order.

1

(b) a AND d

Letters may be given in either order.

1

[2]

Q5.

An explanation that includes a correct counter example, e.g.

- When you double 10° it is not obtuse
- $2 \times 27^\circ = 54^\circ$
- Double 45° is a right angle not obtuse

OR

An explanation that demonstrates where the statement in the question is not correct, e.g.

- If the acute angle is less than 45° then doubling it will be less than 90° , so it won't be obtuse (more than 90°).

Do not accept vague or incomplete explanations, e.g.

- Sometimes it will be acute
- Some acute angles are half an obtuse angle, but not all
- When you double an acute angle, you get a right angle

Do not accept explanations which include incorrect mathematics or incorrect information that is relevant to the explanation, e.g.

- $20^\circ\text{C} \times 2 = 40^\circ\text{C}$
- $20\% \times 2 = 40\%$

[1]

Q6.

Answer in the range 93 degrees to 97 degrees inclusive

[1]

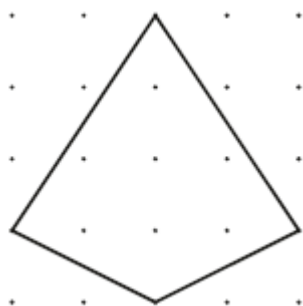
Q7.

Answers in the range 74° to 76° inclusive.

[1]

Q8.

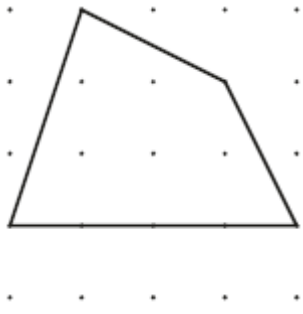
A quadrilateral with three acute angles, e.g.



OR



OR



Accept inaccurate drawing provided the intention is clear.

[1]

Q9.

25

[1]