Single-topic practice questions

Key Stage 2

Mathematics

Angles

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
School name						
DFE number						

Y6 Programme of Study

Geometry - properties of shapes

Pupils should be taught to:

- draw 2-D shapes using given dimensions and angles
- recognise, describe and build simple 3-D shapes, including making nets
- compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
- recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

Notes and guidance (non-statutory)

Pupils draw shapes and nets accurately, using measuring tools and conventional markings and labels for lines and angles.

Pupils describe the properties of shapes and explain how unknown angles and lengths can be derived from known measurements.

These relationships might be expressed algebraically for example, $d = 2 \times r$; $a = 180 - (b + c)$.

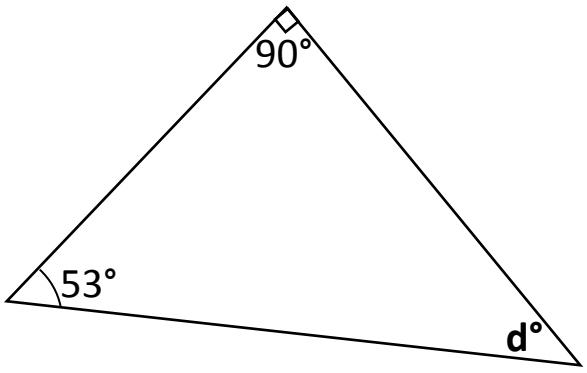
1 Join each angle to the correct description.

234°	**acute**
34°	**right**
90°	**reflex**
134°	**obtuse**

2 marks

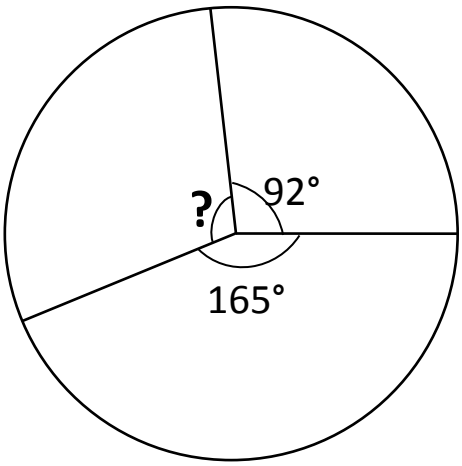
2 Calculate the size of angle **d**.

Not to scale



1 mark

3 Calculate the size of the missing angle shown.



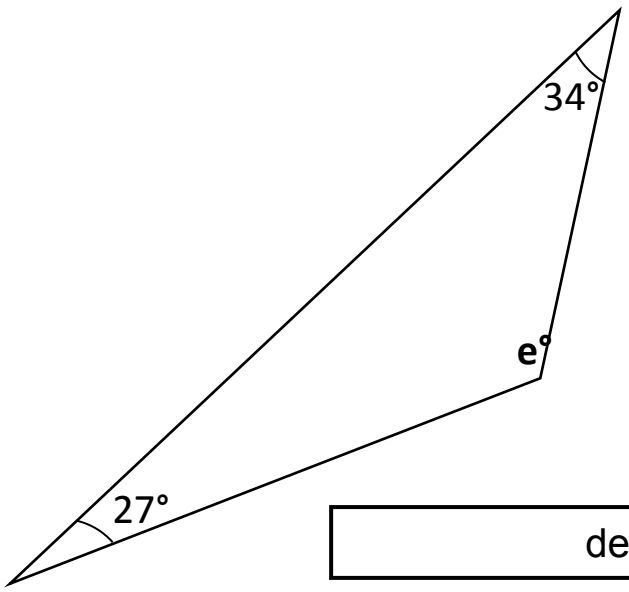
Not to scale

The missing angle is ☐ degrees.

2 marks

4 Calculate the size of angle **e**:

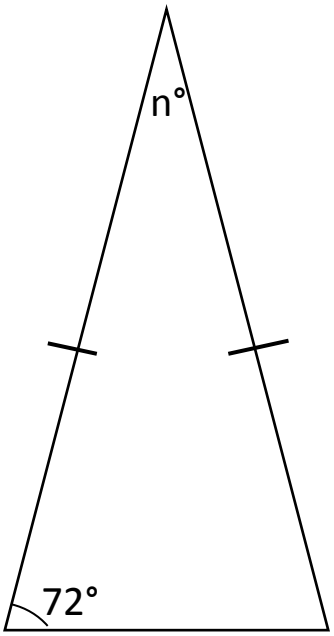
Not to scale



☐ degrees

1 mark

5 The triangle is isosceles. Calculate the size of angle n.



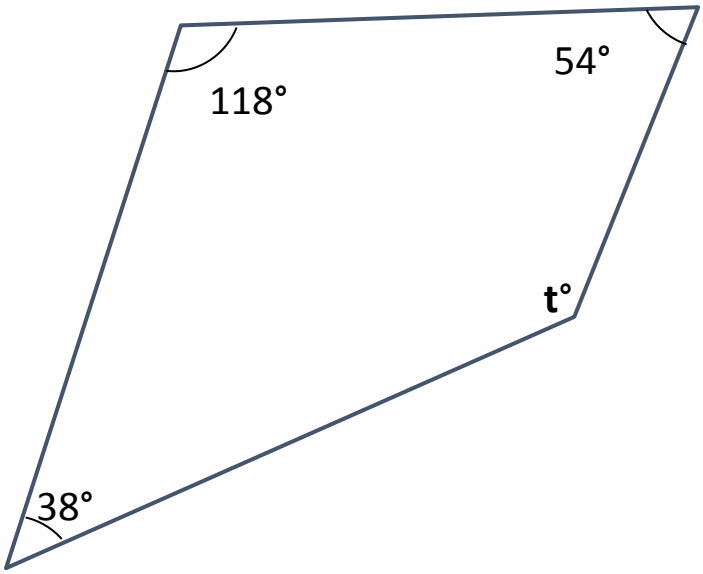
Not to scale

degrees

2 marks

6 Calculate the size of angle **t**:

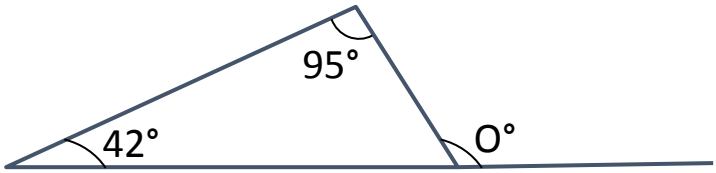
Not to scale



2 marks

7 The triangle is isosceles. Calculate the size of angle O.

Not to scale

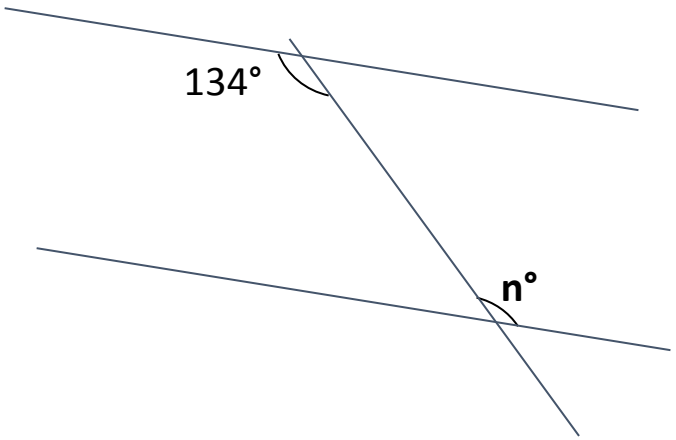


degrees

2 marks

8 Calculate the size of angle **n**:

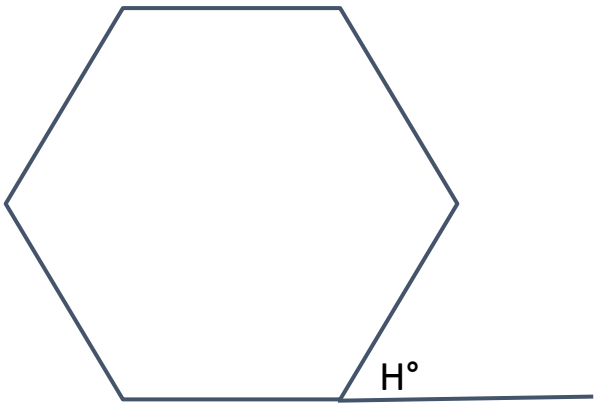
Not to scale



1 mark

9 The hexagon is regular. Calculate the size of angle H.

Not to scale

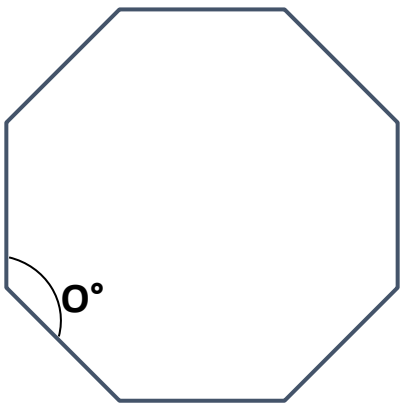


degrees

2 marks

10 The octagon is regular. What is the size of angle O?

Not to scale



1 mark

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- **Percentages**
- **Multiplication and division**
- **Angles**
- **Word problems**
- **Ratio and proportion**
- **Transformations**
- **Money**
- **Mass**
- **Length**
- **Area and perimeter**, and more.

The website also has ***videos of me working through each paper***, so that once pupils have completed the paper they can get help with any questions that they got wrong, and watch a worked-example of how to solve it correctly!

I'd love to have your feedback, so if you have any requests for papers or questions, just let me know.

Thanks - Andrew Jeffrey

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