Year 6 Angles

Q1. Here are five angles marked on a grid of squares.



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

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

_ 1 mark

1 mark

Q2. The diagram shows a shaded octagon on a square grid.

Line A joins two vertices of the octagon.

Join two other vertices to draw a line **parallel** to line **A**.

Use a ruler.



1 mark

Join two vertices to draw a line **perpendicular** to line **A**.



1 mark

Q3. This diagram has four angles marked **A**, **B**, **C** and **D**.



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



Q4. On the grid join dots to make a triangle which does **not** have a **right angle**.

Use a ruler.



1 mark

Q5. Calculate the size of angle *x* in the diagram.

Do not use a protractor (angle measurer).

not drawn accurately

63° x

1 mark

Q6. Two of the angles in a triangle are 70° and 40°

Jack says,



Explain why Jack is **not** correct.



1 mark

Q7. Layla completes one-and-a-half somersaults in a dive.



o

How many degrees does Layla turn through in her dive?



Calculate the size of angle *a*.



2 marks

Q9. Here is a rectangle.



Not to scale

Calculate the size of angles *a* and *b*.

Do **not** measure the angles.



Q10. PQ is a straight line.

Not drawn accurately



Calculate the size of angle *X*.

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





How many degrees is **angle** *x*?





What are the values of the missing angles?





1 mark





Q13. Look at angles a, b, c, d and e



Write the angles in order of size, starting with the smallest.



smallest

1 mark

Q14. Here is a regular octagon.



Calculate the sizes of angles a and b



Q15. Calculate the size of angles a and b in this diagram.



Q16.

Anna has four different triangles.

Complete the table to show the size of the angles in each triangle.

Type of triangle	Angle 1	Angle 2	Angle 3
Isosceles	90°		
Right-angled	80°		
Isosceles	70°		
Isosceles	70°		

2 marks



Calculate the size of angle p in the diagram.

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



2 marks

Q18. The diagram shows an isosceles triangle and a square on a straight line.



Calculate angle α .



2 marks

Q19.



Not to scale

Calculate the size of angle y in this diagram.

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



Q20. Here is an isosceles triangle.



Calculate the size of angle *x*.

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

