

Geometry problem solving cards

GEOMETRY

1

I face North and turn 72° clockwise.

How far do I need to turn to face

- a) South?
- b) West?

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GEOMETRY

2

Three coordinates of a square are (7,4), (12,4) and (12,9).

- a) What is the fourth coordinate?
- b) What is the area of the square?

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3

In my bag I have triangles, hexagons and octagons.

I count 52 sides in my bag.

How many of each shape could I have?

How many different solutions can you find?

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4

A triangle has coordinates (5,3), (11,3) and (8,13).

- a) What type of triangle is it?
- b) What are the new coordinates if the triangle is translated 3 squares right and 4 squares up?

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A trapezium is made using 3 equilateral triangles.

- a) What size will the acute angles in the trapezium be?
- b) What size will the obtuse angles in the trapezium be?
- c) What is the total of the angles of the trapezium?

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6

A triangle has an obtuse angle of 98° and an acute angle, which is 55° smaller.

- a) What is the size of the remaining angle?
- b) What type of angle is it?

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7

If one of the angles in an isosceles triangle is 30° , what could the other two angles be?

Can you find both answers?

Answers

