

Pasteur and Cylinders

L.O. Calculate angles and lengths in shapes. Pasteur Cylinders Remember to/that:	What I think	What my teacher thinks
A right angle is exactly 90°.	☐	☐
Bisecting a right angle results in two 45° angles.	☐	☐
All four angles in a square or rectangle are right angles (90°).	☐	☐
All four sides of a square are the same length.	☐	☐
Rectangles have two pairs of sides that are the same length.	☐	☐
Angles in quadrilaterals sum to 360°.	☐	☐
Angles on a straight line sum to 180°.	☐	☐
Angles in a triangle sum to 180°.	☐	☐
<u>Do me first.</u> Write Fact Families for; $6 \times 9 = \square$ $7 \times 9 = \square$ $8 \times 9 = \square$		

Our tasks for today are 'reasoning and problem-solving', based on our learning about angles and shapes from yesterday and last week.

You will need to use some of these facts to solve the problems;

- angles on a straight line sum to 180°,
- angles around a point sum to 360°,
- right angles are exactly 90°,
- acute angles are greater than 0° and less than 90°,
- obtuse angles are greater than 90° and less than 180°,
- reflex angles are greater than 180° and less than 360°,
- bisecting a right angle gives two angles of exactly 45° ($90 \div 2 = 45$),
- angles in a triangle sum to 180°,
- angles in a quadrilateral sum to 360°,
- all angles in a square and a rectangle are right angles,
- although angles in a triangle sum to 180°, only in equilateral triangles are all three angles 60°.

If you're not sure about any of this, look again at yesterday's and last week's teaching.

Today's six tasks are down on page 4. Think carefully, persevere...and have fun!

Curie and Pyramids

Descartes and Spheres

L.O. Calculate angles and lengths in shapes. Curie Pyramids Descartes Spheres Remember to/that:	What I think	What my teacher thinks
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Bisecting a right angle results in two 45° angles.	☐	☐
All four angles in a square or rectangle are right angles (90°).	☐	☐
All four sides of a square are the same length.	☐	☐
Rectangles have two pairs of sides that are the same length.	☐	☐
Angles in quadrilaterals sum to 360°.	☐	☐
Angles on a straight line sum to 180°.	☐	☐
Angles in a triangle sum to 180°.	☐	☐
<u>Do me first.</u> Write Fact Families for; $60 \times 9 = \square$ $70 \times 9 = \square$ $80 \times 9 = \square$		

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Verne and Cubes

De Gaulle and Cuboids

L.O. Calculate angles and lengths in shapes. Verne Cubes De Gaulle Cuboids Remember to/that:	What I think	What my teacher thinks
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Bisecting a right angle results in two 45° angles.	☐	☐
All four angles in a square or rectangle are right angles (90°).	☐	☐
All four sides of a square are the same length.	☐	☐
Rectangles have two pairs of sides that are the same length.	☐	☐
Angles in quadrilaterals sum to 360°.	☐	☐
Angles on a straight line sum to 180°.	☐	☐
Angles in a triangle sum to 180°.	☐	☐
<u>Do me first.</u> Write Fact Families for; $0.6 \times 9 = \square$ $7 \times 0.9 = \square$ $0.8 \times 0.9 = \square$		

Our tasks for today are ‘reasoning and problem-solving’, based on our learning about angles and shapes from yesterday and last week.

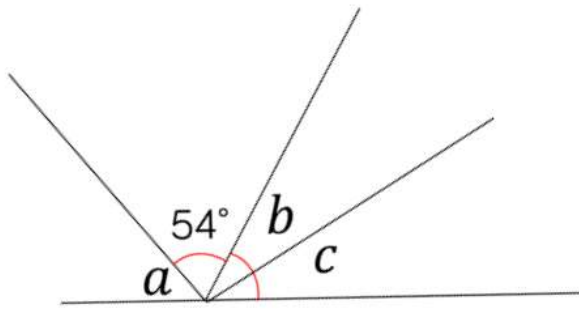
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- bisecting a right angle gives two angles of exactly 45° ($90 \div 2 = 45$),
- angles in a triangle sum to 180°,
- angles in a quadrilateral sum to 360°,
- all angles in a square and a rectangle are right angles,
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1

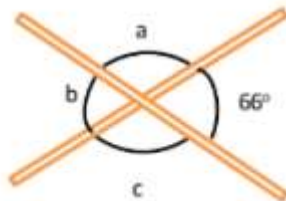


- The total of angle b and c are the same as angle a
- Angle a is 9° more than the size of the given angle.
- Angle b is 11° more than angle c

What are the angles worth?

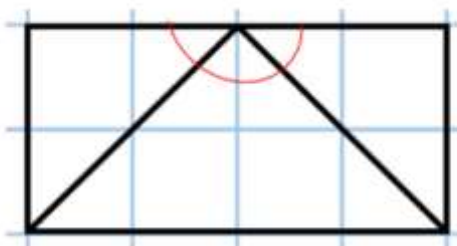
4

Two match sticks are on a table. Without measuring, find the three missing angles.



5

Helena is calculating the missing angles in the shape.



She says,

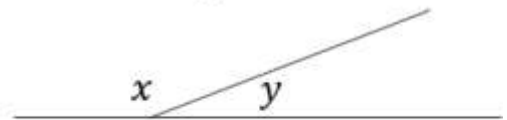


The missing angles are worth 60 because $180 \div 3 = 60$

Do you agree?
Explain why.

2

Here are two angles.



Use the clues to calculate what the missing angles could be worth.

Angle x is larger than 130°

Angle y is a prime number between 40 and 50

3

Bradley is measuring two angles on a straight line.

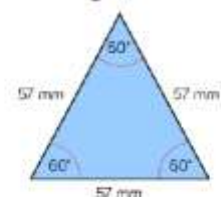
My angles measure 73° and 108°



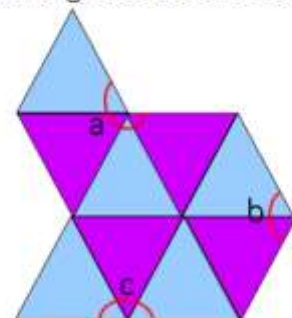
Explain why Bradley's angles must be wrong.

6

Alek has this triangle.



He makes this composite shape using identical triangles to the one above.



- Calculate the perimeter of the shape.
- Calculate the missing angles.