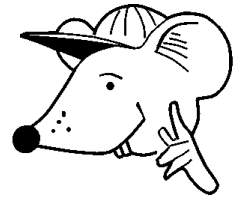


MATHEMATICS



N.S. Yr. 3 P.89

**Describe movement in a straight line and turning
and understand angle as a measure of turn.**

Equipment

Paper, pencil, ruler, plastic or cardboard shapes.

MathSphere

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Concepts

Children should understand and use in practical contexts the following vocabulary:

slide, roll, turn, whole turn, half turn, quarter turn, angle, right angle, straight line, is a greater/smaller angle than.

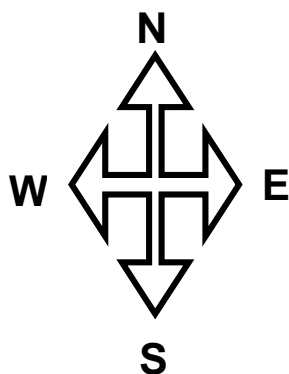
Children should recognise quarter and half turns and know that a quarter turn is a right angle and that a half turn (or straight line) is two right angles.

They should understand the directions N, S, E and W and be able to face one direction, turn a quarter or half turn and say which way they are then facing.

They should know that turning a half turn or two quarter turns results in you facing in the opposite direction.

Children should be able to sort shapes according to the number of right angles they have and be able to fold a piece of paper to give a right angle with which they may test for right angles in other shapes.

They should be able to use a template to draw right angles and test angles to see if they are smaller, equal to or larger than right angles.



I hope you know which way is North, South, East and West.

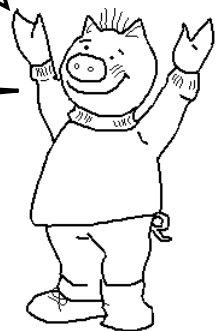
Face the way it tells you in the table. Turn the angle and write down which way you are then facing. The first one is done for you.



Start facing this way.	Turn this angle.	Which way are you facing?
East	Clockwise one right angle.	South
West	Anti-clockwise one right angle.	
North	Clockwise one right angle.	
South	Half turn	
East	Anti-clockwise one right angle.	
North	Half turn	
West	Clockwise one right angle.	
South	Anti-clockwise one right angle.	

Can you make a teddy, or other toy, face the way shown in the table? Fill in the spaces in the table.

Perhaps you have a toy pig!

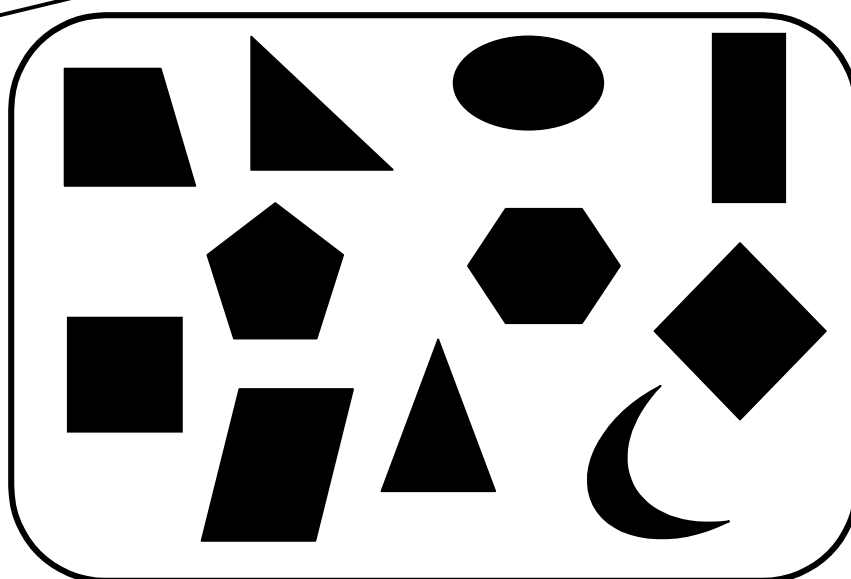



Start teddy facing this way.	Turn teddy through this angle.	Which way is teddy now facing?
West		North
South	Anti-clockwise one right angle.	
North		East
East	Half turn	
South	Half turn	
North	Anti-clockwise one right angle.	
East		West
West	Anti-clockwise one right angle.	

Here are some shapes. Some have no right angles. Some have right angles and other angles. Some have only right angles.

Can you draw the shapes in the table in the correct place?

Being a generous piggy, I have done one for you!

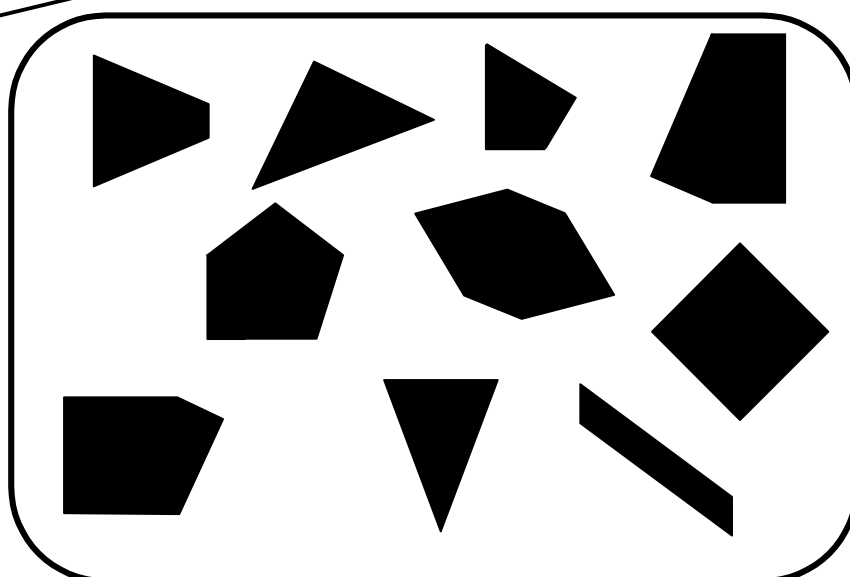


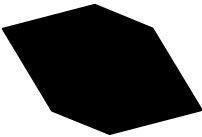
All right angles	Some right angles	No right angles
		

Here are some more difficult shapes. Some have no right angles. Some have right angles and other angles. Some have only right angles.

Can you draw the shapes in the table in the correct place?

Being a generous piggy, I have done one for you!



All right angles	Some right angles	No right angles
		

Take a piece of paper. Tear it so that it is roughly a circle. Fold it in half and then in half again to make a right angle.

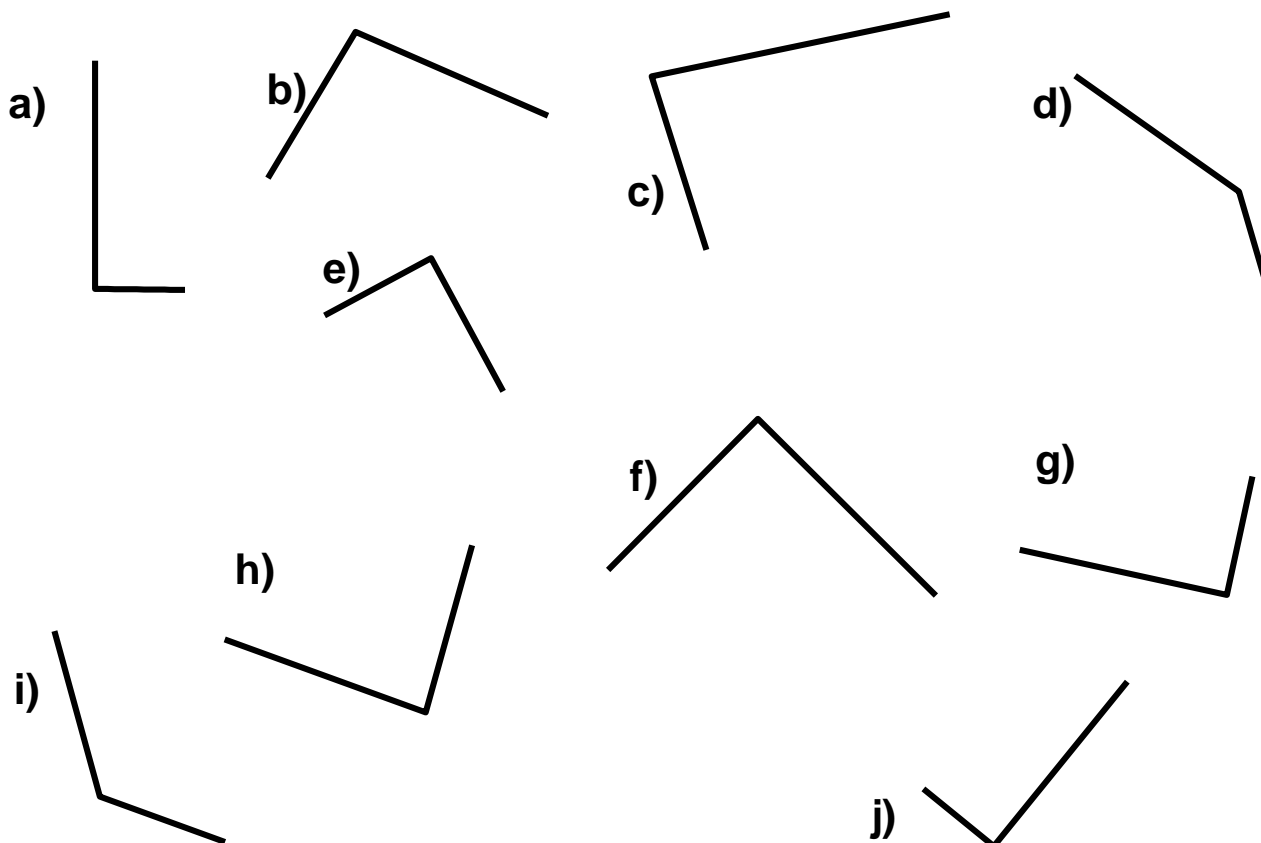
You can now test angles with this to see if they are right angles.



← Genius

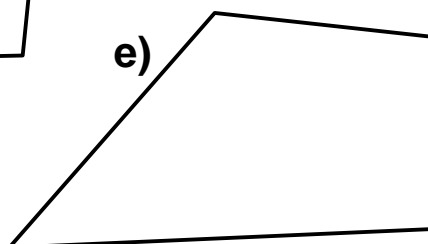
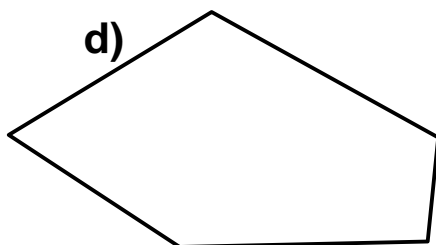
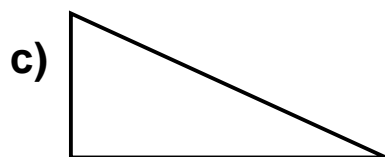
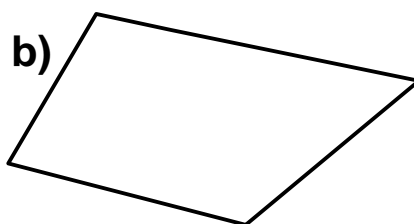
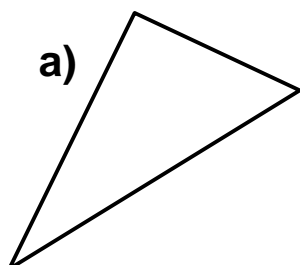
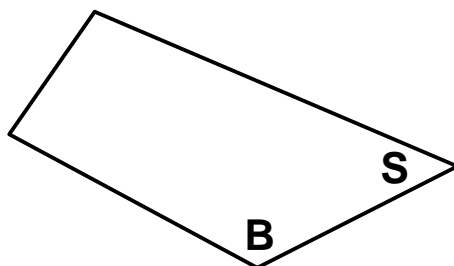
Use your template to test which of these are right angles. Work carefully because some are not quite right angles.

Put a tick by those that are and a cross by those that are not.



Can you spot big angles and small angles?

In each shape mark the smallest angle with a letter **S** and the biggest with a letter **B**. I have done one for you.



Answers

<div> <div>Page 3</div> <div> South S E N N S N E </div> </div>	<div> <div>Page 6</div> <div> <div>All right angles</div> <div>Some right angles</div> <div>No right angles</div> </div> </div>
<div> <div>Page 4</div> <div> <div>Clockwise one right angle</div> <div>Clockwise one right angle</div> <div>Half turn</div> <div>E</div> <div>W</div> <div>N</div> <div>W</div> <div>S</div> </div> </div>	<div> <div>Page 7</div> <div> <div>Right angles: a) e) f) g) j)</div> <div>Non-right angles: b) c) d) h) i)</div> </div> </div>
<div> <div>Page 5</div> <div> <div>All right angles</div> <div>Some right angles</div> <div>No right angles</div> </div> </div>	<div> <div>Page 8</div> <div> <div> <div> <div>B</div> <div>S</div> </div> <div> <div>S</div> <div>B</div> </div> <div> <div>S</div> <div>B</div> </div> <div> <div>B</div> <div>S</div> </div> </div> </div> </div>