BRICKWORK Mathematics

Post Learning Assessment
Shape Year 6 Answers

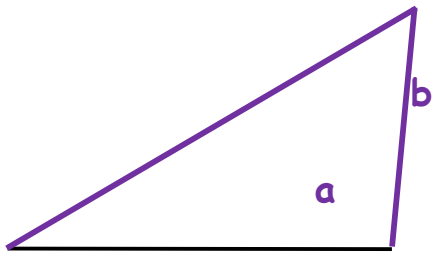
Shape

1) Draw a rhombus with sides the length of 5.9 cm.

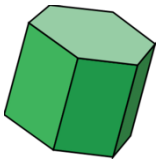
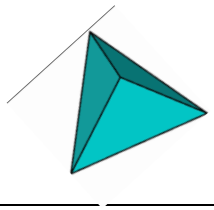
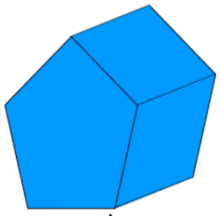
Measure each side to ensure that each length is 5.9 cm. The children should have drawn or suggested appropriate obtuse and acute angles.

2) Complete the scalene triangle. One angle must be 98° and the length of one side must be 3.2 cm. Label the angle A and the side B that show these measurements.

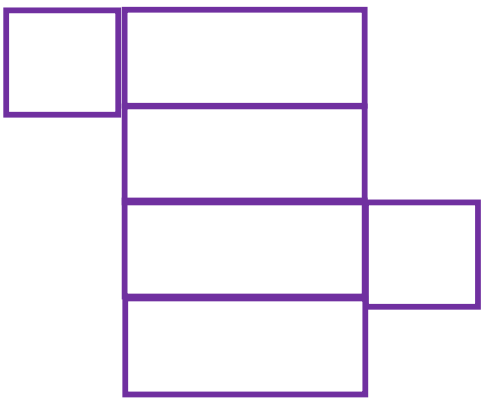
Measure the angle they have labelled A and ensure it is 98 degrees. One side should also be 3.2 cm in length. If the children forget to label, still award the mark if they show accurate measuring.

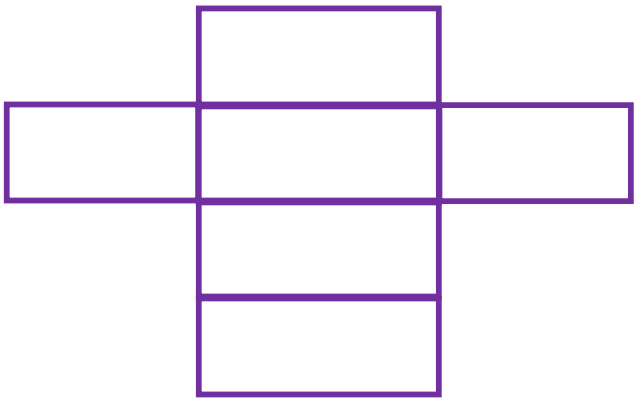


3) Complete the table:

Shape	Number of edges	Numbers of Faces	Number of vertices
	1	2	1
	18	8	12
	6	4	4
	15	7	10

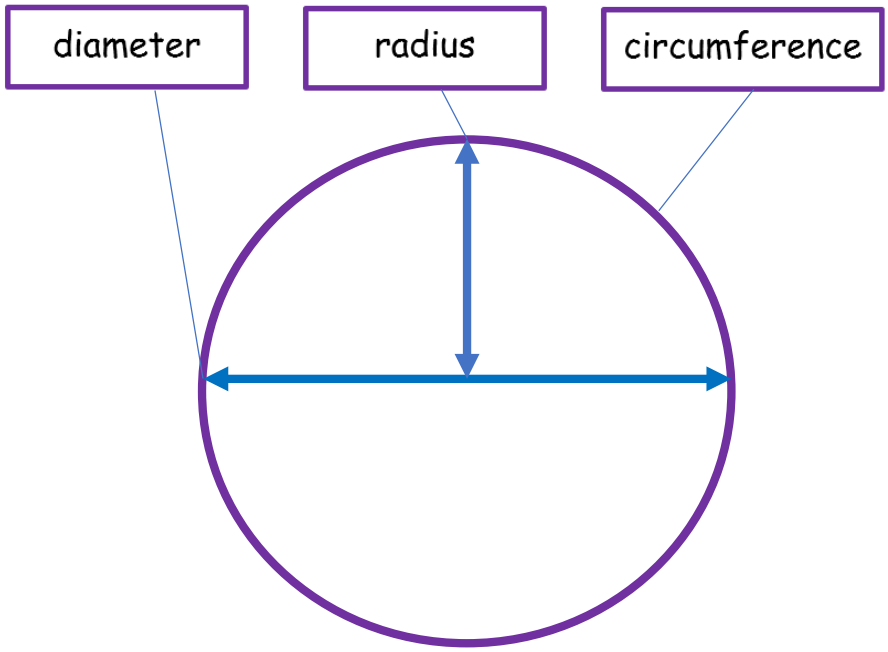
4) Draw a net for a cuboid.





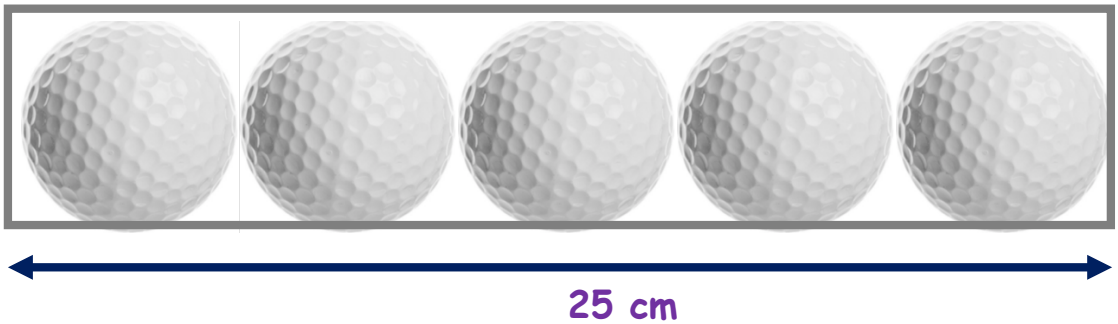
Accept any valid net of a cuboid.

5) Draw a circle with a diameter of 8cm. Then label the circle with the following labels.



Measure the diameter of the circle that the child has drawn to ensure it is 8cm as asked in the question. Award mark if they can identify parts accurately, however you may want to provide opportunities in other units such as measure or coordinates to secure and apply these skills.

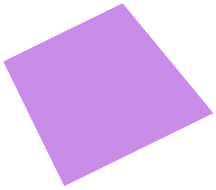
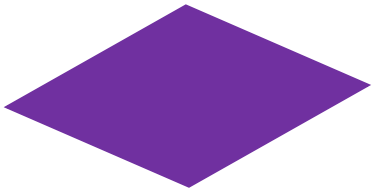
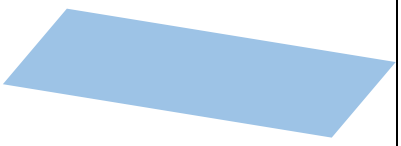
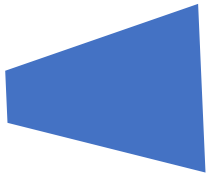
6) Jamal makes a container for his golf balls. He makes the container to hold 5 golf balls. Use the information below to work out the radius of one golf ball.



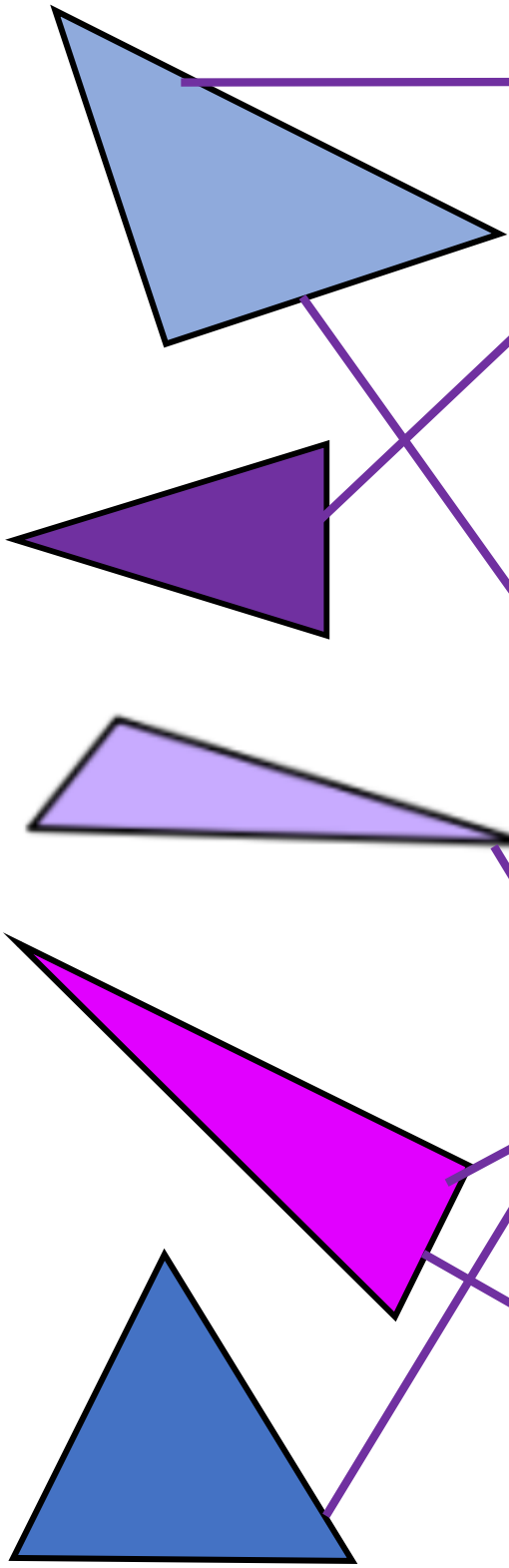
Children should demonstrate understanding that to fit the 5 balls in the length of 25 cm, each ball must have a diameter of 5cm.
(25 divided by 5 = 5)
They should then apply the knowledge that the radius is half if the diameter
(5 divided by 2 = 2.5)

2.5 cm

Q7) Draw or match each image to the correct box in the table and name each quadrilateral.

Shape	Shape name	Properties of shape
	Kite	No right angles No parallel sides 2 sets of equal length sides
	Trapezium	Two sets of perpendicular sides 1 set of parallel sides Sides are of any length
	Rhombus	No perpendicular sides All sides are of equal length 2 sets of parallel sides
	Parallelogram	2 sets of parallel sides No perpendicular sides Opposite sides are parallel Opposite sides are of the same length.
	Trapezium	One set of parallel sides 2 sets of equal length sides No perpendicular sides

8) Match each triangle to the appropriate labels.



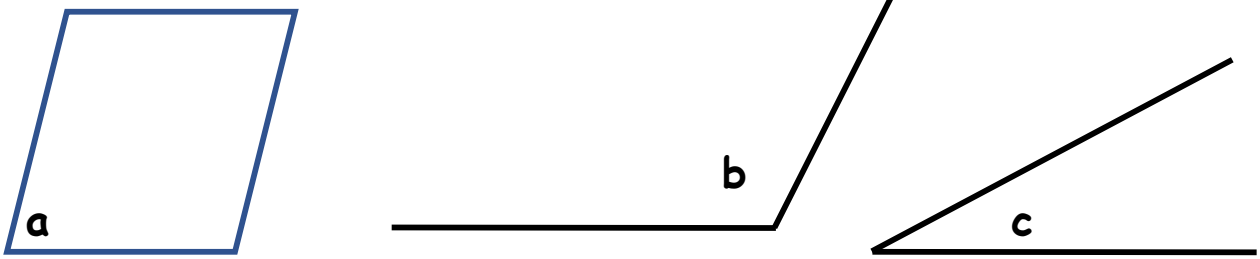
isosceles triangle

equilateral triangle

right angled triangle

scalene triangle

9) Measure the angles in each image.

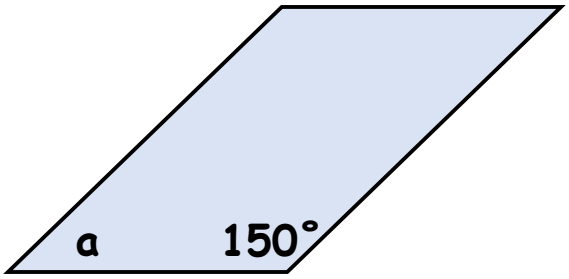


a = 76 °

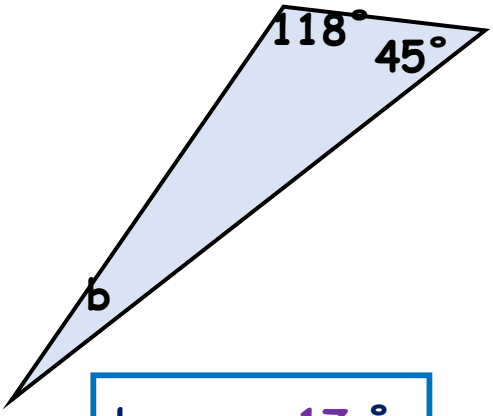
b = 112 °

c = 29 °

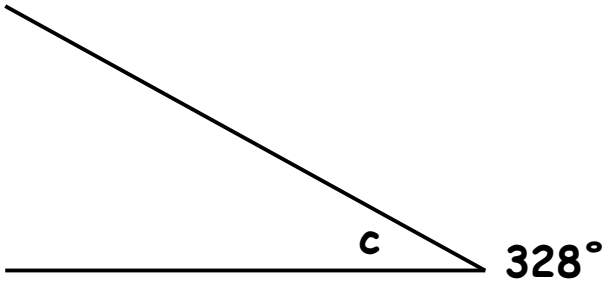
10) Calculate the missing angles in each image.



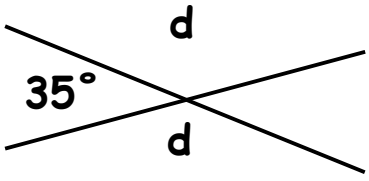
a = 30 °



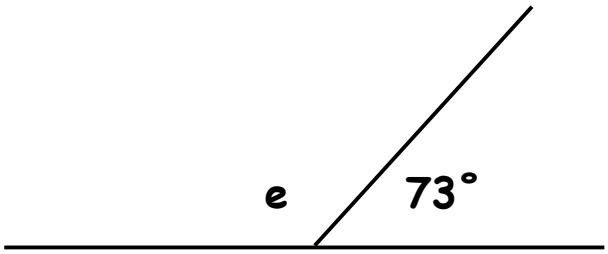
b = 17 °



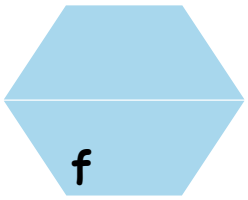
c = 32 °



d = 145 °



e = 107 °



f = 120 °

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