

# Properties of Shapes

## End-of-Strand Assessment

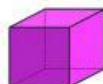
Name: \_\_\_\_\_ Date: \_\_\_\_\_

(Please note: a protractor is required for this assessment.)

1. Match each 3D shape to the correct name.



cuboid



tetrahedron



triangular prism



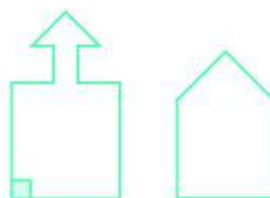
square-based pyramid



cube

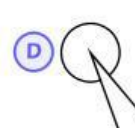
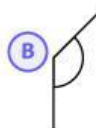
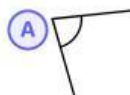
2 marks

2. Mark all of the right angles inside these shapes. The first one has been done for you.



1 mark

3.



Are these statements true or false?

Angle B is an obtuse angle.

Angle B is larger than angle D.

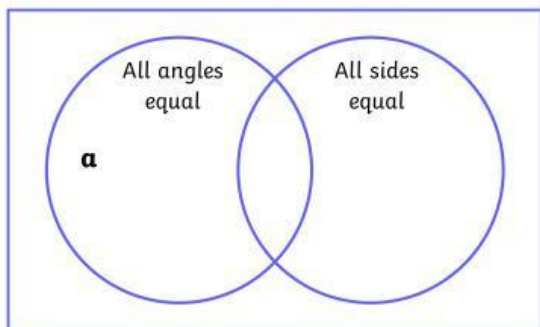
Angle C is the smallest angle.

Angle D is an acute angle.

Angle A is a reflex angle.

2 marks

4. Sort these shapes by writing each letter in the correct place on the Venn diagram. The first one has been done for you.

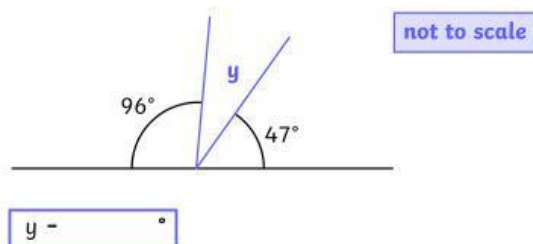


5. From the dot, draw a horizontal line that is 6.3cm in length. Then, draw and label an angle measuring  $35^\circ$  from this line.

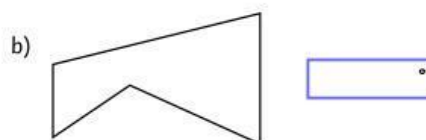
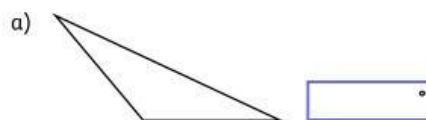


6. Calculate the value of angle  $y$ .

**Do not use a protractor to measure the angle.**

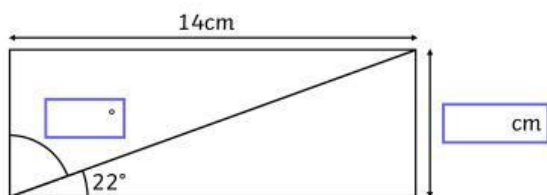


7. Use a protractor to measure the obtuse angle in each of these shapes.



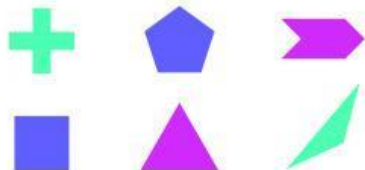
8. Calculate the missing measurements.

not to scale



perimeter = 40cm

9. a) Circle all of the shapes below that are irregular polygons.



b) Explain why you think the shapes you circled are irregular polygons.

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10. Use the compass to identify the number of degrees in each turn.



Turn clockwise from NE to SE.

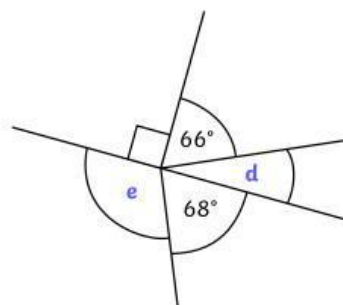
Turn anticlockwise from SW to NE.

Turn clockwise from N to W.

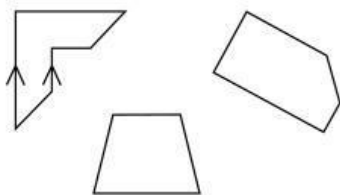
11. Calculate the values of angles d and e.

Do not use a protractor to measure the angles.

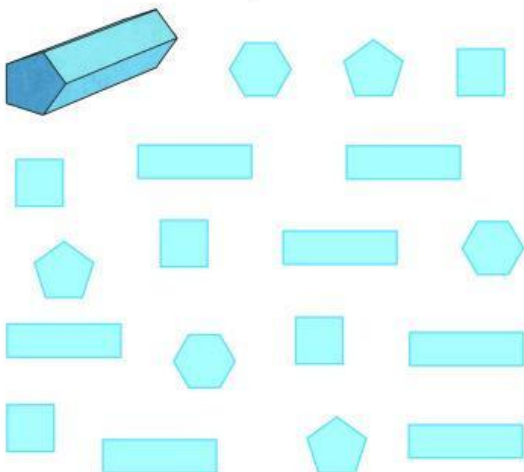
not to scale



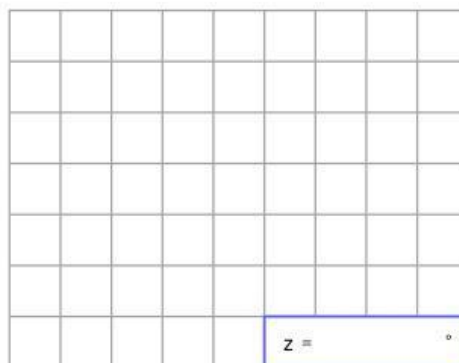
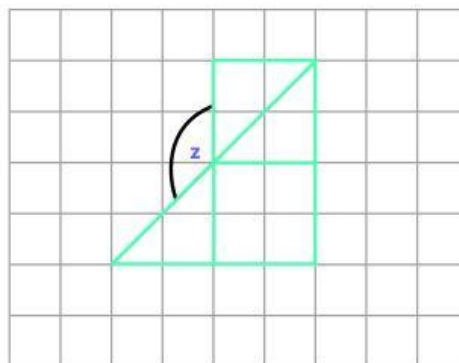
12. Identify and mark all of the pairs of parallel lines on these shapes. The first pair has been marked for you.



13. Tick the exact number of 2D shapes you would need to construct this 3D shape.



14. Calculate the size of angle  $z$ . Show your method.



$z =$    $^{\circ}$

1 mark

1 mark

2 marks

Total  
24 marks