

# Year 6

## Geometry Test 4(E)

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

1. Use a protractor to draw an angle of  $145^\circ$ .

One line has been drawn for you.

\_\_\_\_\_

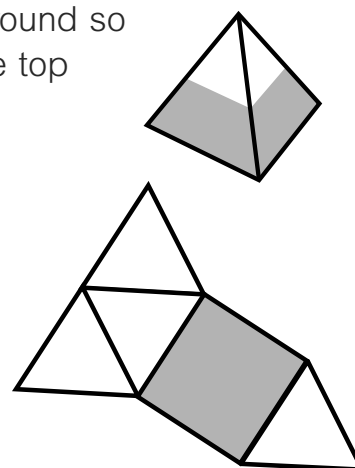


1 mark

2. A square-based pyramid is shaded all the way around so that the bottom half of the pyramid is grey and the top half is white.

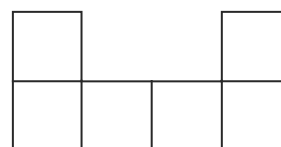
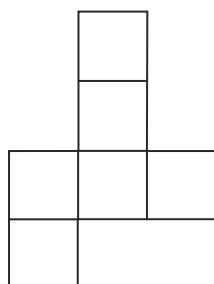
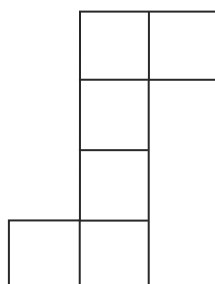
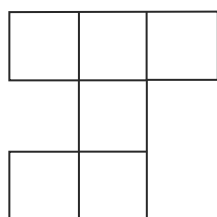
Here is a net of the pyramid.

Complete the shading.



1 mark

3. ✓ the two shapes that are nets for cubes.

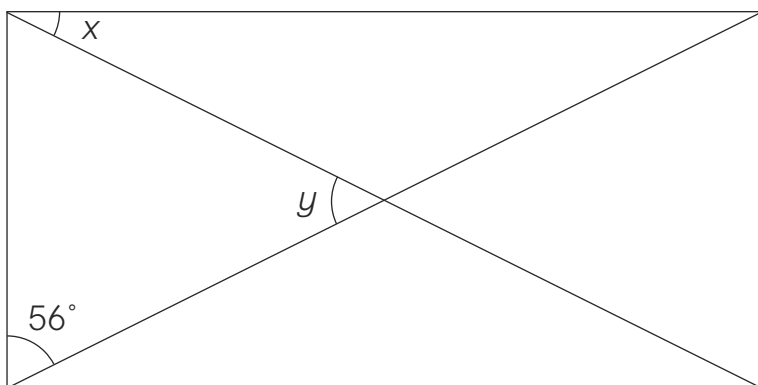


1 mark



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4. Calculate the angles  $x$  and  $y$  in this rectangle.



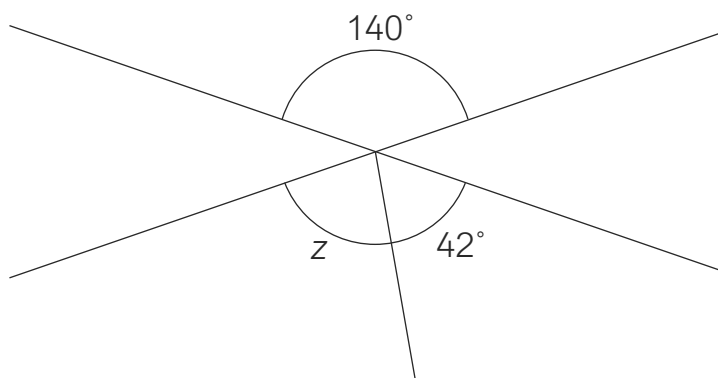
$$x = \boxed{\phantom{000}}^{\circ}$$

$$y = \boxed{\phantom{000}}^{\circ}$$



2 marks

5. Calculate the missing angle  $z$ .



$$z = \boxed{\phantom{000}}^{\circ}$$

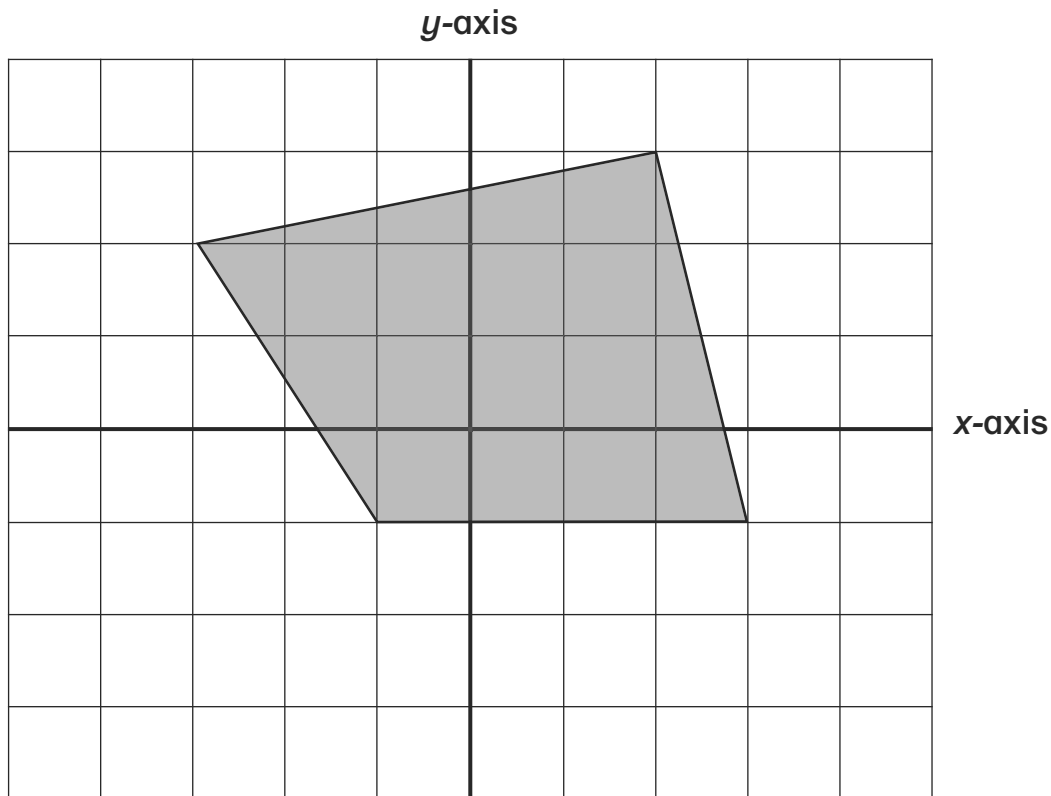


1 mark



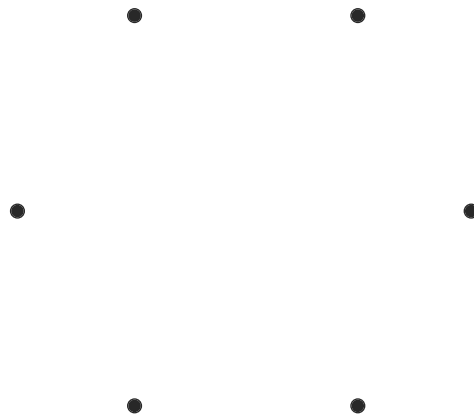
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6. Reflect the quadrilateral in the x-axis.



2 marks

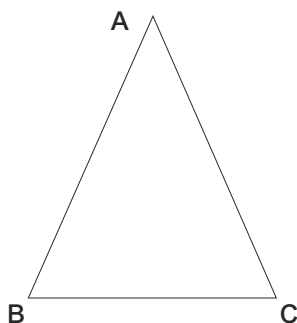
7. These dots are arranged symmetrically.  
Join any of the dots to draw a pair of parallel lines.



1 mark


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8. This is an isosceles triangle.



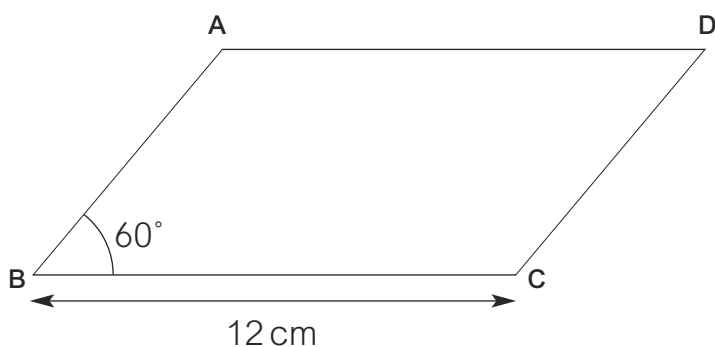
Angle BAC is  $56^\circ$ .

Calculate angle ACB.

°

  
1 mark

9. This is a parallelogram.



Answer these questions about the parallelogram:

- a) Side AB is half the length of AD.

What is the perimeter of the parallelogram?

perimeter =  cm

  
1 mark

- b) Angle BAD is twice the size of angle ABC.

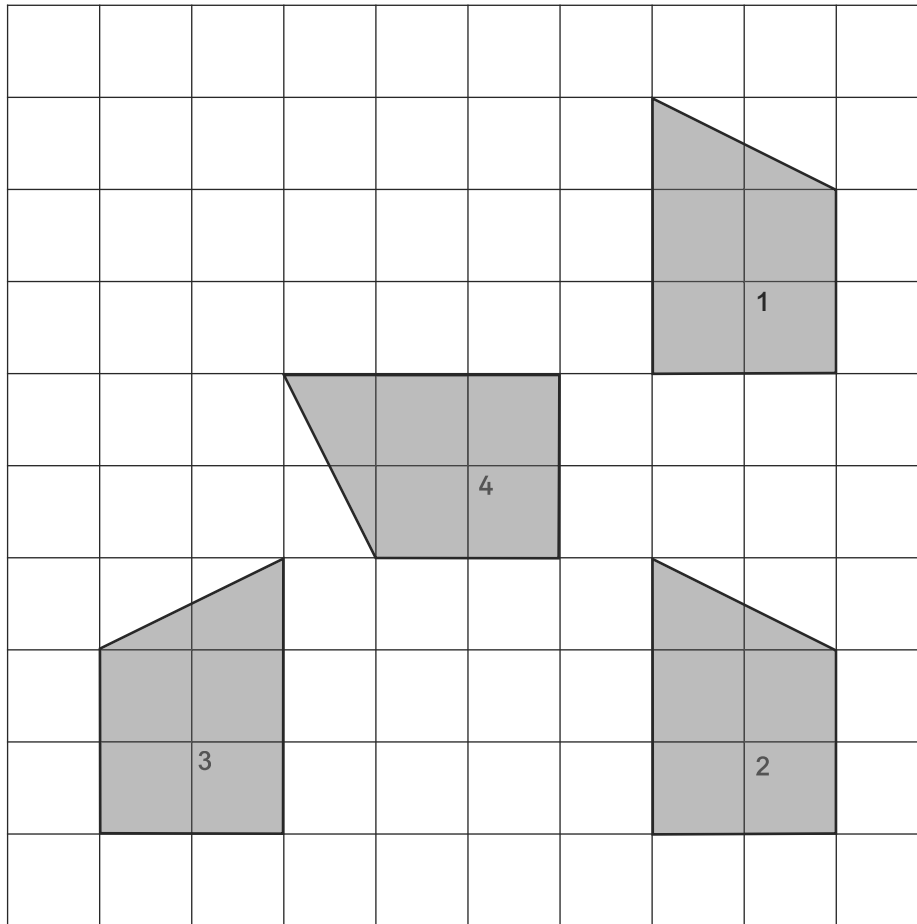
Calculate angle BAD.

angle BAD =  °

  
1 mark

  
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**10.** The quadrilateral has made three transformations on the grid.



✓ the correct order of transformations.

- ☐ reflection, then reflection, the translation
- ☐ translation, then translation, then rotation
- ☐ rotation, then translation, then rotation
- ☐ translation, then reflection, then rotation
- ☐ reflection, then translation, then rotation

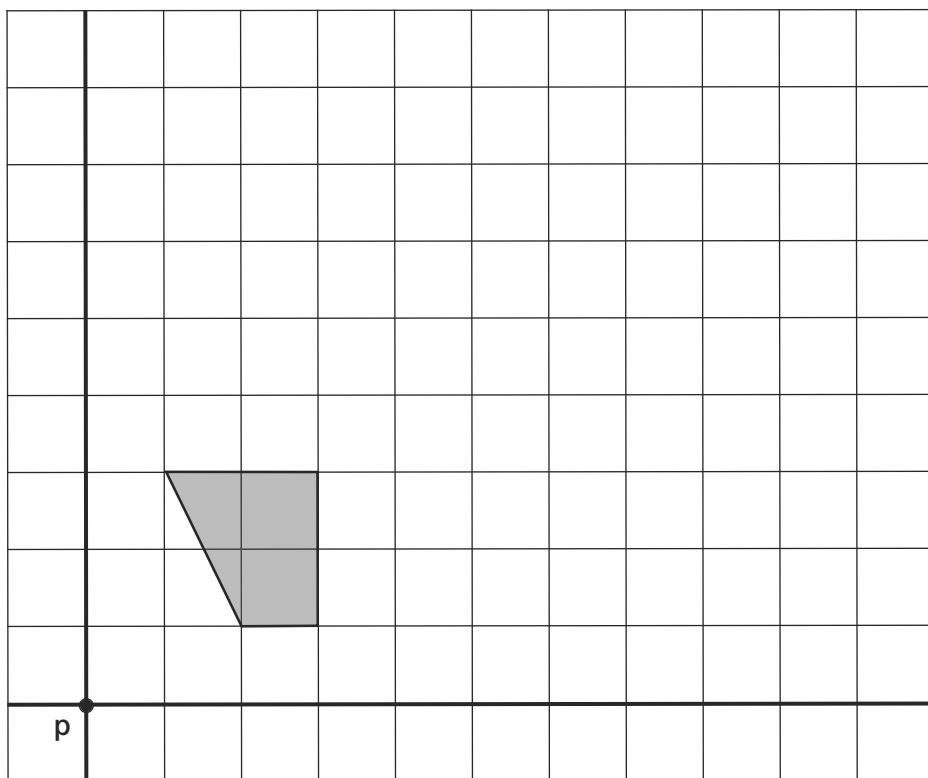


1 mark



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- 11.** A quadrilateral is on the grid.  
 Enlarge the quadrilateral by a scale factor of 3.  
 The centre of enlargement is point  $p$ .



2 marks

/15

**Total for  
this test**