

## Numeracy Year 9 – Week 4: Space

### STUDENT WORKSHEET

#### Focus of the week

Interpreting geometric language

#### Question 1

Jake made this square-based pyramid using

8 straws  and 5 joiners .



Jake wants to change this square-based pyramid into a cube.

How many **more** straws and joiners will he need to make a cube?

\_\_\_\_\_ straws

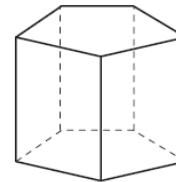
\_\_\_\_\_ joiners

Write the answers  
on the lines.

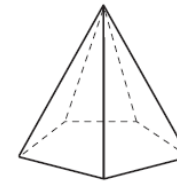


#### Question 2

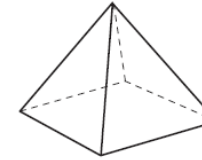
These diagrams represent three-dimensional objects.



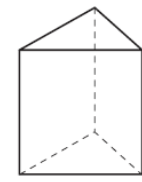
Object 1



Object 2



Object 3



Object 4

Which object has 5 faces, 9 edges and 6 vertices?

- Object 1
- Object 2
- Object 3
- Object 4

## Numeracy Year 9 – Week 4: Space

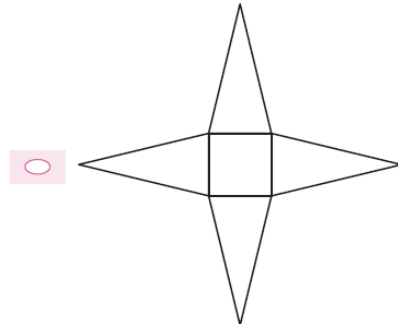
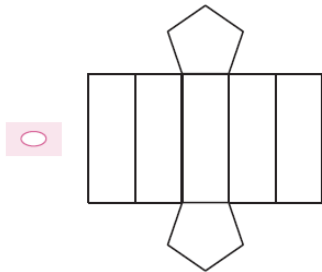
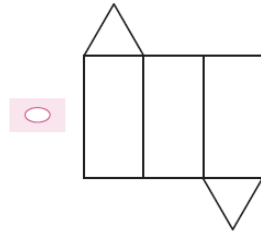
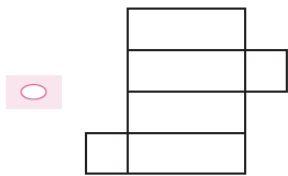
### STUDENT WORKSHEET

#### Question 3

Which one of the following is a net of a 3D object with:

- exactly 5 faces; and
- exactly two parallel faces.

Shade one bubble.



#### Challenge Question

A certain type of polygon has the following properties:

- four sides; *and*
- exactly one pair of parallel sides.

In the space below, draw an example of the polygon.  
Use geometric symbols to show the given information.



Draw the shape.