Free Extra Maths Class · Grade 5

2D shapes, 3D objects and nets

Name: _____

Remember: Count the sides and look at the angles. Prism: 2 bases and rectangles around. Pyramid: 1 base and triangles to a point. A cube's net has 6 squares.

1 What is the name of a shape with 6 straight sides?

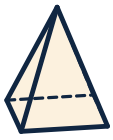
2 How many right angles does a rectangle have?

3 Is a square also a quadrilateral? Explain.

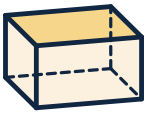
4 Complete for the triangular prism:
faces ___ edges ___ vertices ___



5 Complete for the square pyramid:
faces ___ edges ___ vertices ___



6 Complete for the rectangular prism:
faces ___ edges ___ vertices ___



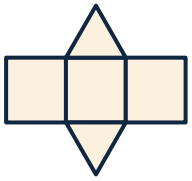
7 Which object has 1 flat circle and 1 curved surface?



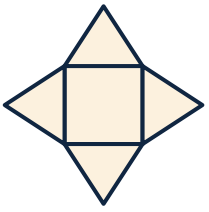
8 An object has 2 pentagons and 5 rectangles as faces. What is its name?

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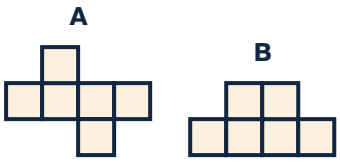
9 Which object does this net fold into?



10 Which object does this net fold into?



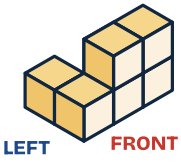
11 Which net folds into a cube, A or B?



12 Draw the view **from the front** of this building.



13 Draw the view **from the top** of this building.



14 How many faces does a cube have and what shape is each face?

15 How many cubes are in the building in question 12?

I got _____ out of 15 ☆ ☆ ☆

Free Extra Maths Class · Grade 5 · Memo

Memo: 2D shapes, 3D objects and nets

1. **hexagon**
   Six sides and six angles.

2. **4**
   All four angles of a rectangle are 90°.

3. **Yes**
   Any shape with 4 straight sides is a quadrilateral.

4. **5 faces, 9 edges, 6 vertices**
   2 triangles + 3 rectangles = 5 faces; 3 + 3 + 3 = 9 edges; 3 + 3 = 6 vertices

5. **5 faces, 8 edges, 5 vertices**
   1 square + 4 triangles = 5 faces; 4 around the base + 4 to the point = 8 edges; 4 + 1 = 5 vertices

6. **6 faces, 12 edges, 8 vertices**
   6 rectangles; 4 + 4 + 4 = 12 edges; 4 + 4 = 8 vertices

7. **a cone**
   A cylinder has 2 circles; a cone only 1.

8. **pentagonal prism**
   Two matching bases with rectangles around = prism; the base is a pentagon.

9. **triangular prism**
   2 triangles and 3 rectangles.

10. **square pyramid**
    1 square with 4 triangles around it.

11. **A**
    In B two squares land on the same face (four in a row with two on the same side).

12. **See the drawing.**
    The tallest stack in each column: 3, 1, 1.



13. **See the drawing.**
    Colour in every spot where a cube stands; the gap at the back in the middle stays empty.



14. **6 squares**
    All six faces are equal squares.

15. **8**
    2 + 1 + 1 + 3 + 1 = 8