12.5.20

LO. To be able to construct 3D shapes

Mild

I have 9 straws and 6 balls of Play-Doh. What 3-D shape can I create using all of the straws and Play-Doh? Have a go at making it.

Have a go at drawing your shape...

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3. Using the given resources, determine whether the statement below is true or false.

**You can construct a cube.**

9 sticky tack balls

12 Matchsticks

Explain how you know.

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Hot

You have 8 straws and 6 balls of modelling clay. Circle the names of the shapes you could make using these:

cube    sphere    triangular prism    square-based pyramid    cone

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6. Using the given resources, determine whether the statements below are true or false.

**A. You can construct a cube.**

9 sticky tack balls

**B. You can construct a triangular prism.**

12 Matchsticks

Explain how you know.
1) Using straws for straight edges and balls of modelling clay for vertices, how many of each would you need to build a pyramid with a hexagonal base?

Straws: [ ] Modelling clay balls: [ ]

9. Using the given resources, determine whether the statements below are true or false.

A. You can construct a hexagonal prism.  
B. You can construct a octahedron.

11 sticky tack balls  
18 Matchsticks

Explain how you know.

Rosie says,

I can create a model of a square-based pyramid using 3 straws and 3 balls of Play-Doh.

Explain the mistake Rosie has made.

How many straws and balls of Play-Doh would you need to create a pyramid?