## Maths

## Summer Term Week 6

## Starters:

- Use the factor bug to find the factors of 36,48 and 60.
- Multiply 264 X 4 and 362 X6. Check with calculator.
- Find $1 / 3$ of 136,219 and 429.
- Revise perimeter. Can you write a definition for it?
- Revise area. Can you write a definition for it?


## L.O. To be able to recognise the nets of different Prisms.

A net is a 2D shape that you can fold to make a 3D shape.

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AFL - What is a prism?
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A prism is a polyhedron that has 2 faces the same shape that are parallel to each other.
(Parallel faces are the same distance from each other all the way along.)

Any shape can form the base of a prism.
Polyhedrons
A polyhedron is as solid with fiat faces
(from Greek poly- meaning "many" nod -edton meaning "Face")
Each face is a polivear (of flat shape with straight side).


These are nets of Prisms.
They all have 2 faces that are the same shape and are parallel to each other. They also all have rectangular faces.

## Task 1:



What 3D shape will this prism make? Describe the 2D shapes used to make it.

## Task 2:

1) Draw the nets of:

- triangular prism
- pentagonal prism
- hexagonal prism
- cuboid

Try to describe them underneath if you can.

## Task 3:

Discuss similarities and differences between the nets of a square based pyramid and a cube.


## Task 4:

Draw the nets for a :

- Triangular-based pyramid
- Pentagonal pyramid
- Hexagonal pyramid

Can you describe the faces used for the net?

## Task 5:

Here are the nets of 9 solid shapes. Each one of these has been cut into 2
pieces, like the net of the cube.


Can you see which pieces go together?

## Task 6

Have a go at building a 3D shape from a net!

## Answers:

Task 1:


What 3D shape will this prism make? Describe the 2D shapes used to make it.
This will make a pentagonal prism. It has 2 pentagonal faces that are exactly the same shape, that will be parallel to each other. It also has 5 rectangular faces - each one connected to one side of the pentagonal face.

Task 2:

1) Draw the nets of:

- triangular prism
- pentagonal prism
- hexagonal prism
- cuboid


I have included others that you might have tried yourself too.

## Task 3:

Discuss similarities and differences between the nets of a square based pyramid and a cube.


They both have at least 1 square face. A square face in the middle is joined by other faces.
The pyramid has triangular faces, whereas the cube has square faces. In a cube, the faces are all the same, but the square-based pyramid has two different types of faces.

## Task 4:

Draw the nets for a:

- Triangular-based pyramid
- Pentagonal pyramid
- Hexagonal pyramid

Can you describe the faces used for the net?
1)


3)


Task 5:

Here are the nets of 9 solid shapes. Each one of these has been cut into 2
pieces, like the net of the cube.


$$
\text { -_-_Name of the shape }^{+}
$$

E4E: Can you explain how you know those two pieces go together? Give reasons.

Can you see which pieces go together?


