Year 5 Maths Home Learning Summer 2 Week 5

W/C: 29.06.2020

Log in to purple mash where you have 2 maths tasks to complete (3D shapes and types of angles) and also an activity (2Design and make) to have a go at.

Log in to Rockstars and test yourself on the 11 times tables. Below is also a paper version.

Use the inverse to answer these:

11 × 6 = _____	11 × 9 = _____	2 × 11 = _____
11 × 8 = _____	8 × 11 = _____	11 × 7 = _____
1 × 11 = _____	3 × 11 = _____	7 × 11 = _____
11 × 12 = _____	10 × 11 = _____	6 × 11 = _____
11 × 10 = _____	9 × 11 = _____	11 × 5 = _____
12 × 11 = _____	5 × 11 = _____	11 × 4 = _____
11 × 11 = _____	11 × 2 = _____	11 × 3 = _____
11 × 1 = _____	4 × 11 = _____	3 × 11 = _____
2 × 11 = _____	6 × 11 = _____	11 × 4 = _____
10 × 11 = _____	11 × 6 = _____	11 × 5 = _____
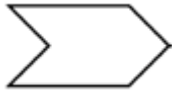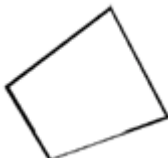
Monday 29 June 2020
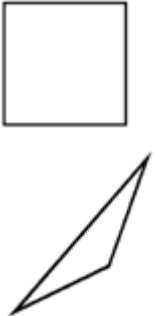
Regular and irregular polygons

Use the video on your class stream to help you solve the following.

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shape	regular/irregular	Number of right angles	reasoning

□ ⟋			
△			
⬠			

Challenge:

Draw one regular and one irregular shape using the grids below
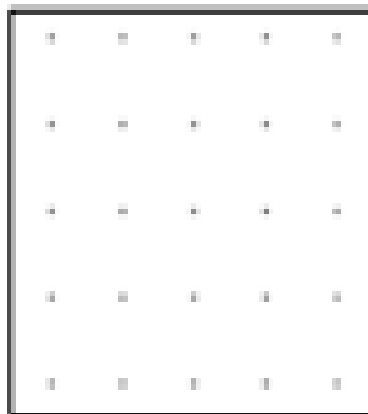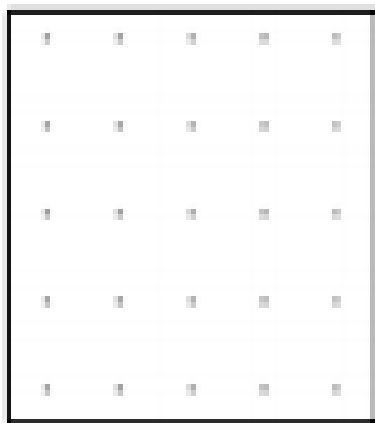
Tuesday 30ᵗʰ June 2020

Characteristics of polygons

==Watch the video on your class stream and use the resource to help you solve the following.==

Red:

1). I have 4 sides. All of my sides are the same length.

2). I have 4 sides. I have 2 pairs of parallel sides.

3) I have 3 sides and 1 right angle.

4) I have 3 sides; two of them are the same length.

5). I have 5 sides. My interior angles are all 108°

Orange:

1). I have 4 perpendicular sides. I have 2 pairs of parallel sides.

2). I have 3 interior angles that add up to 180°. All of my sides are the same length.

3). I am an irregular polygon. I have 2 pairs of equal sides and 1 pair of opposite angles is equal.

4). I am a quadrilateral with 1 pair of parallel sides.

5). I am a regular polygon. The total of my internal angles is 720°.

Green:

1) I have 3 interior angles that add up to 180°. All of my sides are different lengths.

2) I am a quadrilateral with 1 pair of parallel sides.

3). Draw your own irregular polygon with 7 sides and 2 perpendicular sides.

4). Draw a regular polygon with 2 pairs of parallel lines and an area of 30cm.

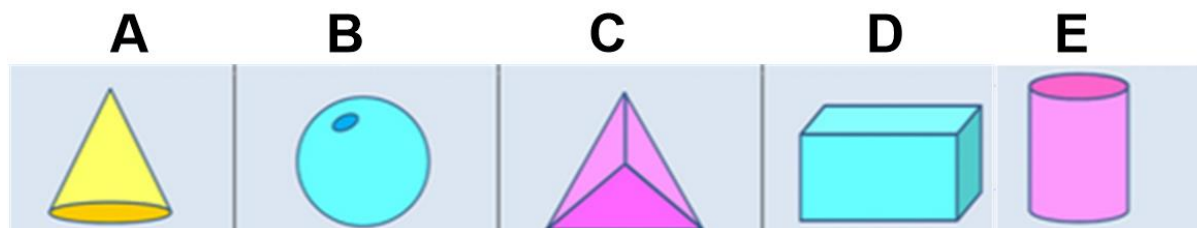5). Draw a heptagon that has both acute and obtuse angles.

Challenge:

Is this a regular or irregular shape?

Explain your answer

Wednesday 1ˢᵗ July 2020

Characteristics of 3d shapes

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A	B	C	D	E

Red:

Write the name of the 3d shape and say how many curved and flat faces it has.

Orange:

Write the name of the 3d shape and say how many curved and flat faces it has as well as how many edges it has.

Green:

Write the name of the 3d shape and say how many curved and flat faces it has as well as how many edges it has. Finally, how many vertices does each shape have?

Challenge:

Thomas says this shape has 2 edges, 2 faces and no vertices.
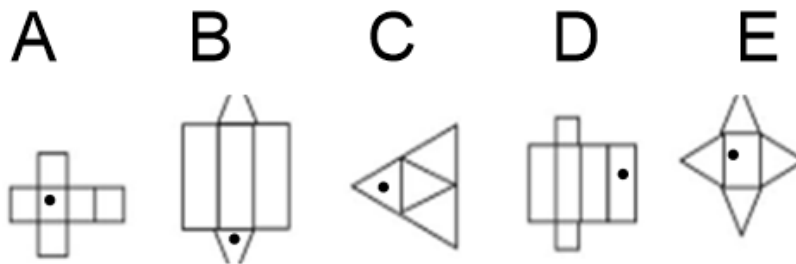
Explain his mistake.

Thursday 2ⁿᵈ July 2020

3d from 2d nets

A   B   C   D   E

Red:

Write which 3d shape you think it makes and why.

Orange:

Write the name of the 3d shape and its properties

Green:

Write the name of the 3d shape and its properties. Next, draw a dot on the opposite face once the net has been constructed.

Challenge:

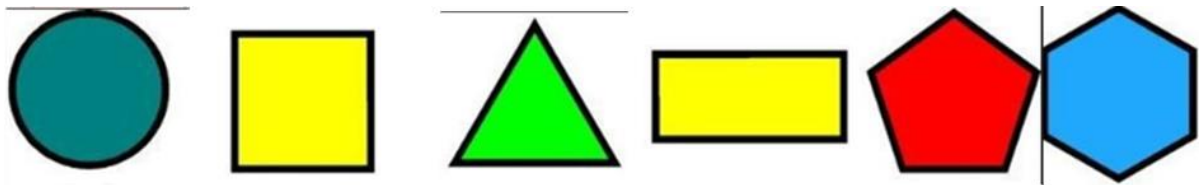Tanya says it is impossible to make a net of a sphere.

Do you agree or disagree?

Explain your thinking.

Friday 3rd July 2020

Acute or obtuse angles

<mark>Watch the video on your class stream and the resource to help you solve the following.</mark>

Red

For each shape, identify its name and then whether it has obtuse or acute angles.

Orange:

For each shape, identify its name and then how many acute, right, obtuse or reflex angles it has as well as how many pairs of parallel lines.

Green:

1). For each shape, identify its name and then how many acute, right, obtuse or reflex angles it has as well as how many pairs of parallel lines. Then, find the total sum of the interior angles.

Challenge:

Use the sentence stems to describe the turns made by the minute hand. Compare the turns to a right angle.

The turn from 12 to 4 is larger than a right angle. It is an obtuse angle.

The turn from ___ to ___ is _____ than a right angle. It is an _____ angle.