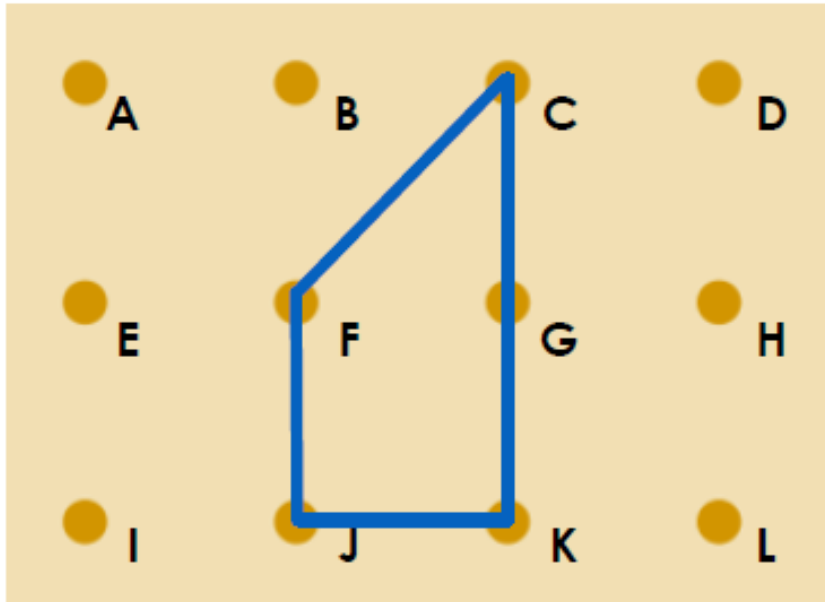3/7/20 – Maths

Skill: Comparing and ordering angles – Discussion Problems!

1.

___

1. Explore what would happen to the angles in the shape if you moved the rubber band from point G to point H.

A   B   C   D

E   F   G   H

I   J   K   L

What angles have you created?

Explore other angles by moving the band.

DP

2.

2. Joseph has dropped the angle cards. Cut out the cards and match the angles to the descriptions to create a loop.

> 90 degrees			right angle			acute angle

< 90 degrees			Less than 180 degrees			acute angle

90 degrees			obtuse angle

DP

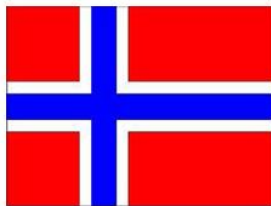*If you can't print and cut out the cards then draw them on paper and create your own.

3.

Gem draws four angles that have a sum of 360°. She says, "One angle is acute and a multiple of 10. The second angle is a quarter turn. The third angle is obtuse and a multiple of 25. The fourth angle is 55°."

What could the angles be? _____

Is there more than one possibility?
Prove your answer in your book.

4.

In the Olympic Games there are many national flags on display.

a) Investigate the flags you see.
 • What shapes can you see?
 • What angles can you see?
 • Compare the angles (label them on the image)

b) Now draw a flag of your choice and write a description about it using the points above as a prompt.

5.

Always, sometimes or never true?   Prove it! (with examples)

• Two acute angles next to each other make an obtuse angle.
• Half an obtuse angle is an acute angle.
• 180° is an obtuse angle