

Name: _____

Dragon Signals

Yesterday, you went to all the villages to find out how many dragons are in the kingdom. However, we forgot some of the smaller villages in the outer kingdom!

Sylvia City has 3 dragons. How will they signal to us?

Draw what the fire sequence will look like:

Middle Mountain has 5 dragons. How will they signal to us?

Draw what the fire sequence will look like:

Gabeandgary Glenn has 6 dragons. How will they signal to us?

Playground Peak has 7 dragons. How will they signal to us?

Draw what the fire sequence will look like:

CHALLENGE: In order to save the villages, we need to quickly get the message to the wizards to protect us. Luckily, at the castle (where all of the kingdom mathematicians work), we are able to have as many fires as we need.

How many fires will we need to tell the wizards that there are 21 dragons in the outer kingdom?

Draw what the fire sequence will look like:

Brilliant Mathematician Work

CHALLENGE: We should be prepared for the next dragon invasion. Draw the fire sequence for 84 dragons:

150 dragons:

500 dragons:

SUPER CHALLENGE: The castle is growing too hot for the royal family with all these fires. How can we send the signal for 71 dragons using fewer fires?