



Instructions

Students should cut out all of the shapes on the page, calculate the HCF and LCM of the pairs of numbers in the pentagon/hexagon, and match the correct triangles round the edges. The resulting star shape will spell out a word.

Teaching notes

This resource contains two matching activities on HCF and LCM. The hexagon set is harder than the pentagon set as it involves higher numbers and uses only two HCFs.

For a shorter activity, or to differentiate between different students, you could separate the hexagon and pentagon sets.

For a longer activity, you could cut the shapes out before the lesson, so students don't know whether each triangle belongs in the hexagon or pentagon set. To save time, cut the shapes roughly for students to finish themselves.

Both sets contain one 'red herring', making it harder for students to guess the hidden word.

You could adapt the activity as a starter to introduce a different topic, by changing the hidden words to suit the learning objective. E.g. 'shape', 'metre', 'BIDMAS', 'divide', etc. All text in the shapes was made using WordArt.

Answers

Pentagon set

(hidden word read clockwise)

Pentagon	15 , 50	18 , 24	16 , 20	32 , 44	14 , 35
Triangle	5 , 150	6 , 72	4 , 80	4 , 352	7 , 70
	P	R	I	M	E

Hexagon set

(hidden word read anticlockwise)

Hexagon	336 , 882	924 , 126	240 , 660	540 , 1140	462 , 378	360 , 2100
Triangle	42 , 7056	42 , 2772	60 , 2640	60 , 10260	42 , 4158	60 , 12600
	F	A	C	T	O	R