YR6 PROGRESSION IN MASTERY LESSON PACK - CALCULATING SCALE FACTORS



FLUENCY 3

Work out the enlargement from the blue regular hexagon to the orange regular hexagon.



FLUENCY 4

FLUENCY 2



Fill in the gaps below using the given numbers to help you

	Side length	New length	Scale Factor
Shape 1		42cm	7
Shape 2	3mm	39mm	
Shape 3	18inch		9

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REASONING 1

A rectangle has sides of 0.4m and 0.65m.

Its enlarged rectangle has sides of 160cm and 230cm.



I cannot find the scale factor as the units of measure of different.

Is Alfie correct? Explain your reasoning.

REASONING 2

REASONING 3

A square has been enlarged.

Use Millie's clues below to work out the scale factor from Square A to Square B.



Clue One: Square A has an area of 16cm².

<u>Clue Two:</u> Square B has a side length of 16cm.

REASONING 4

All these shapes are an enlargement of each other.

Do you agree or disagree with Jane? 7cm 9cm You can use your knowledge of ratio to calculate scale factor 3cm Using examples, show why you agree or disagree!



Do you agree? Explain why!



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PROBLEM SOLVING 1

Here is a trapezium...



What scale factor will give the first whole number perimeter? Is there a scale factor that will give an odd perimeter?



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