## YR6 PROGRESSION IN MASTERY LESSON PACK - CALCULATING SCALE FACTORS

## FLUENCY 1



Triangle B is $\qquad$ times as large as Triangle A.

Triangle B has been enlarged by a scale factor of $\qquad$

FLUENCY 2
The blue rectangle has been enlarged by a scale factor of
$\qquad$ Find the missing length $A$.


## FLUENCY 3

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


FLUENCY 4
Fill in the gaps below using the given numbers to help you

|  | Side <br> length | New <br> length | Scale <br> Factor |
| :---: | :---: | :---: | :---: |
| Shape 1 |  | 42 cm | 7 |
| Shape 2 | 3 mm | 39 mm |  |
| Shape 3 | 18inch |  | 9 |

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## REASONING 1

A rectangle has sides of 0.4 m and 0.65 m .
Its enlarged rectangle has sides of 160 cm and 230 cm .


Is Alfie correct?
Explain your reasoning.

REASONING 2
Do you agree or disagree with Jane?

Using examples, show why you agree or disagree!

## 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 $16 \mathrm{~cm}^{2}$. Clue Two: Square B has a side length of 16 cm .

## REASONING 4

All these shapes are an enlargement of each other.


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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