

# Enlarge an Object with a Positive Scale Factor

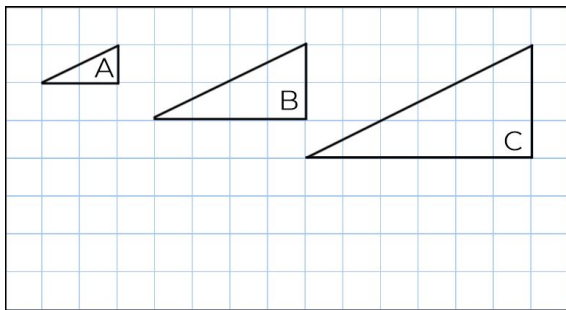
Maths

Miss Davies



# Enlarge an Object with a Positive Scale Factor

1. Shape A has been enlarged to create shapes B and C.



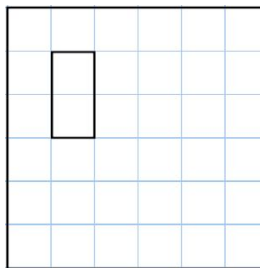
a) State the scale factor between the stated pairs.

i) A to B      ii) A to C

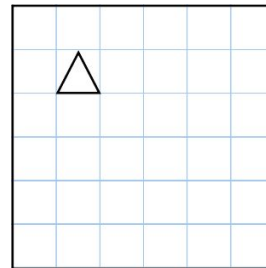
b) Shape A is enlarged by a scale factor of 4 to form shape D. Draw shape D on the grid.

2. Enlarge each shape by the stated scale factor.

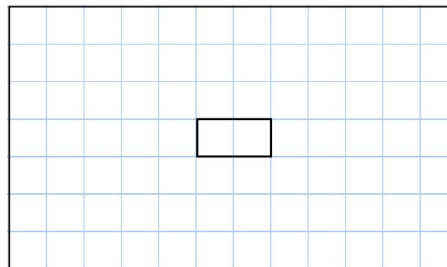
a) s.f. = 2



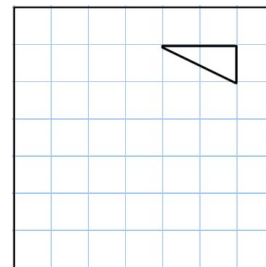
b) s.f. = 3



c) s.f. = 5

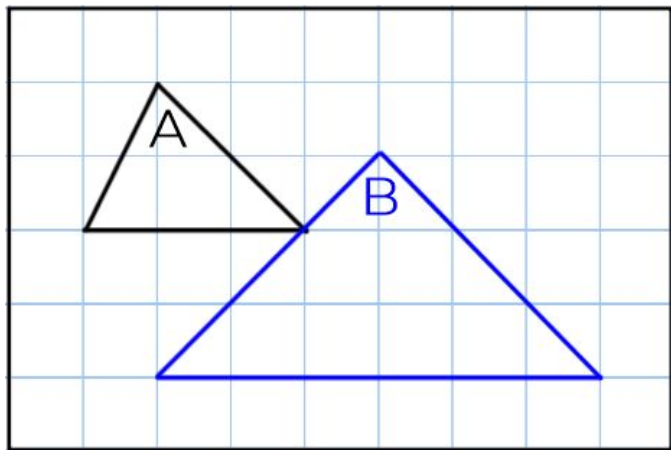


d) s.f. = 3



# Enlarge an Object with a Positive Scale Factor

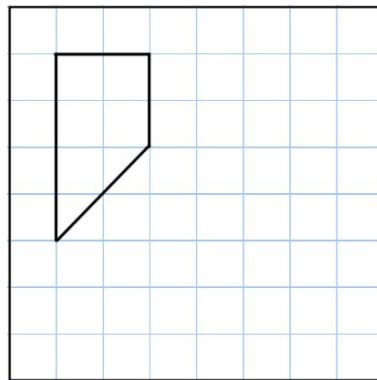
3. Jon has enlarged shape A by a scale factor of 2.



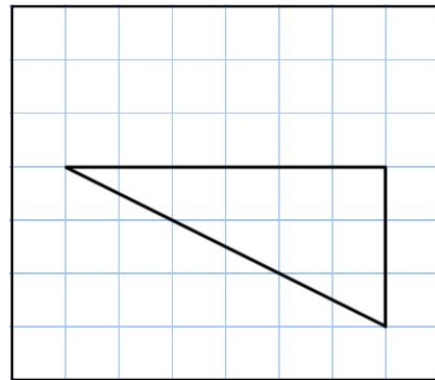
What error has he made?

4. Enlarge each shape by the stated scale factor.

a) s.f. = 1.5



b) s.f. =  $\frac{1}{3}$

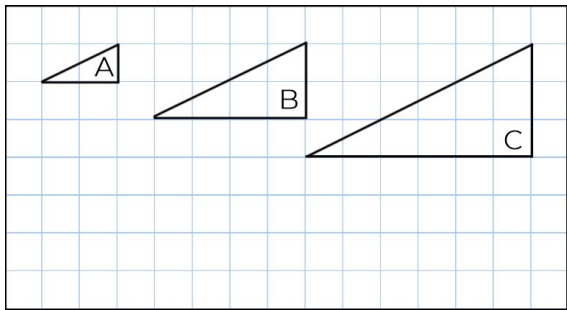


# Answers



# Enlarge an Object with a Positive Scale Factor

1. Shape A has been enlarged to create shapes B and C.



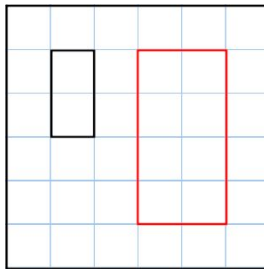
a) State the scale factor between the stated pairs.

i) A to B **2**    ii) A to C **3**

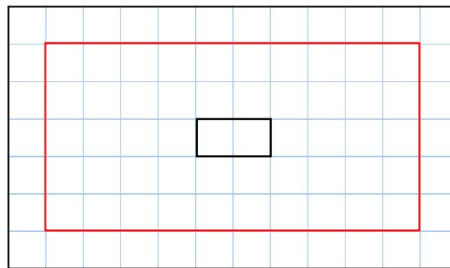
b) Shape A is enlarged by a scale factor of 4 to form shape D. Draw shape D on the grid.

2. Enlarge each shape by the stated scale factor.

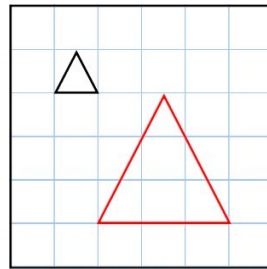
a) s.f. = 2



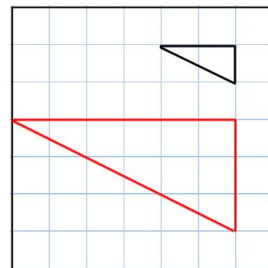
c) s.f. = 5



b) s.f. = 3

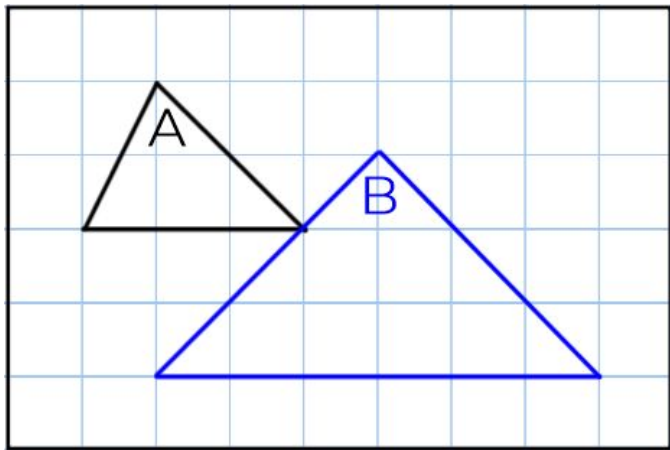


d) s.f. = 3



# Enlarge an Object with a Positive Scale Factor

3. Jon has enlarged shape A by a scale factor of 2.



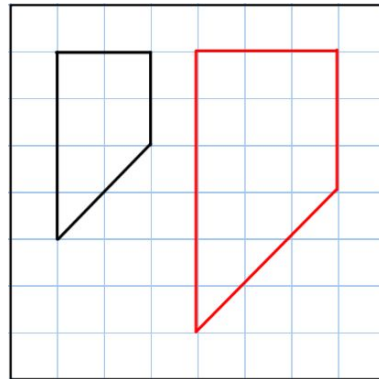
What error has he made?

The right diagonal has been enlarged by a scale factor of 1.5

The top vertex is in the wrong position.

4. Enlarge each shape by the stated scale factor.

a) s.f. = 1.5



b) s.f. =  $\frac{1}{3}$

