

# Outcome 1 - Enlargement & Reduction

## Bronze example

Examples...

Enlarge this shape by a scale factor of 5.

Original length = 4  
Enlarged length = 20

Original breadth = 3  
Enlarged breadth = 15

## Silver example

Examples...

Reduce this shape by a scale factor of  $\frac{1}{3}$ .

Original length = 12  
Reduced length = 4

Original breadth = 9  
Reduced breadth = 3

## Gold example

Examples...

Enlarge this shape by a scale factor of 2.5.

Original length = 4  
Enlarged length = 10

Original breadth = 2  
Enlarged breadth = 5

## Bronze Questions

Enlarge these shapes by the given scale factors...

1 Scale factor = 2      2 Scale factor = 5

3 Scale factor = 2      4 Scale factor = 3

5 Scale factor = 4      6 Scale factor = 2

## Silver Questions

Reduce these shapes by the given scale factors...

1 Scale factor =  $\frac{1}{5}$       2 Scale factor =  $\frac{1}{2}$

3 Scale factor =  $\frac{1}{3}$       4 Scale factor =  $\frac{1}{4}$

5 Scale factor =  $\frac{1}{3}$       6 Scale factor =  $\frac{1}{2}$

## Gold Questions

Enlarge or reduce these shapes by the given scale factors...

1 Scale factor = 4.5      2 Scale factor = 1.5

3 Scale factor = 2      4 Scale factor =  $\frac{1}{4}$

5 Scale factor = 0.5      6 Scale factor =  $\frac{1}{2}$

## Bronze Answers

1.  $4 \times 6$



2.  $20 \times 10$



3.  $8 \times 10$



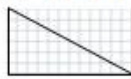
4.  $9 \times 9$



5.  $16 \times 16$



6.  $12 \times 6$

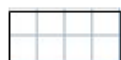


## Silver Answers

1.  $2 \times 3$



2.  $4 \times 2$



3.  $5 \times 4$



4.  $3 \times 3$



5.  $4 \times 4$



6.  $5 \times 3$



## Gold Answers

1.  $18 \times 18$



2.  $6 \times 3$



3.  $10 \times 6$



4.  $2 \times 1$



5.  $4 \times 2$



6.  $3 \times 2$

