



Scale Factor

I can solve problems involving shapes where the scale factor is known or can be found.



1. On the grid, draw:

- a rectangle that is four squares long and three squares wide then enlarge the shape by a scale factor of two. Colour both shapes red.
- a square with sides of two squares then enlarge the shape by a scale factor of three. Colour both shapes blue.





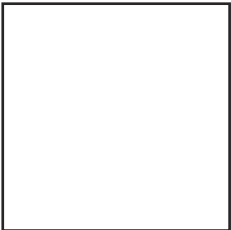
Scale Factor

2. Measure the shapes then enlarge them by the scale factor shown:

a. a scale factor of two



b. a scale factor of three

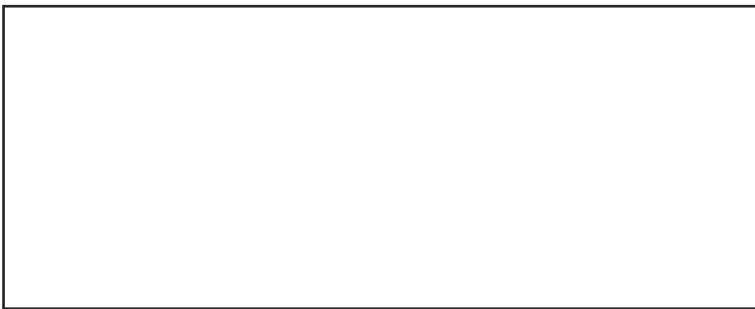




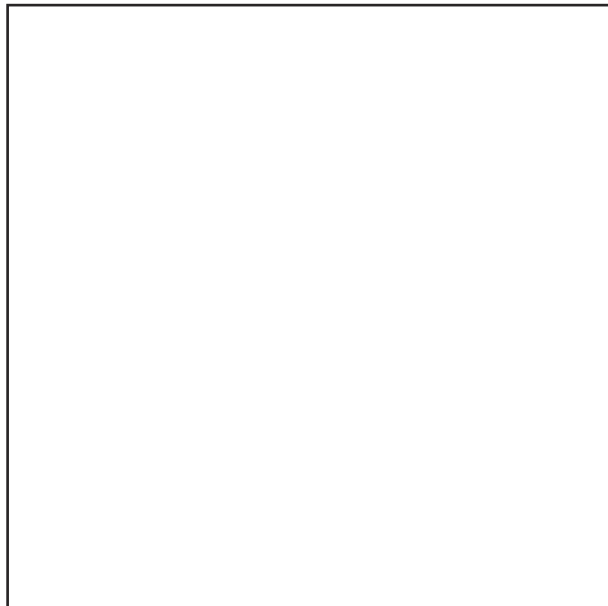
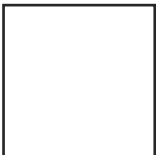
Scale Factor

3. Look at these enlargements. State what scale factor they have been enlarged by. You will need to measure the shapes.

a. scale factor: _____



b. scale factor: _____

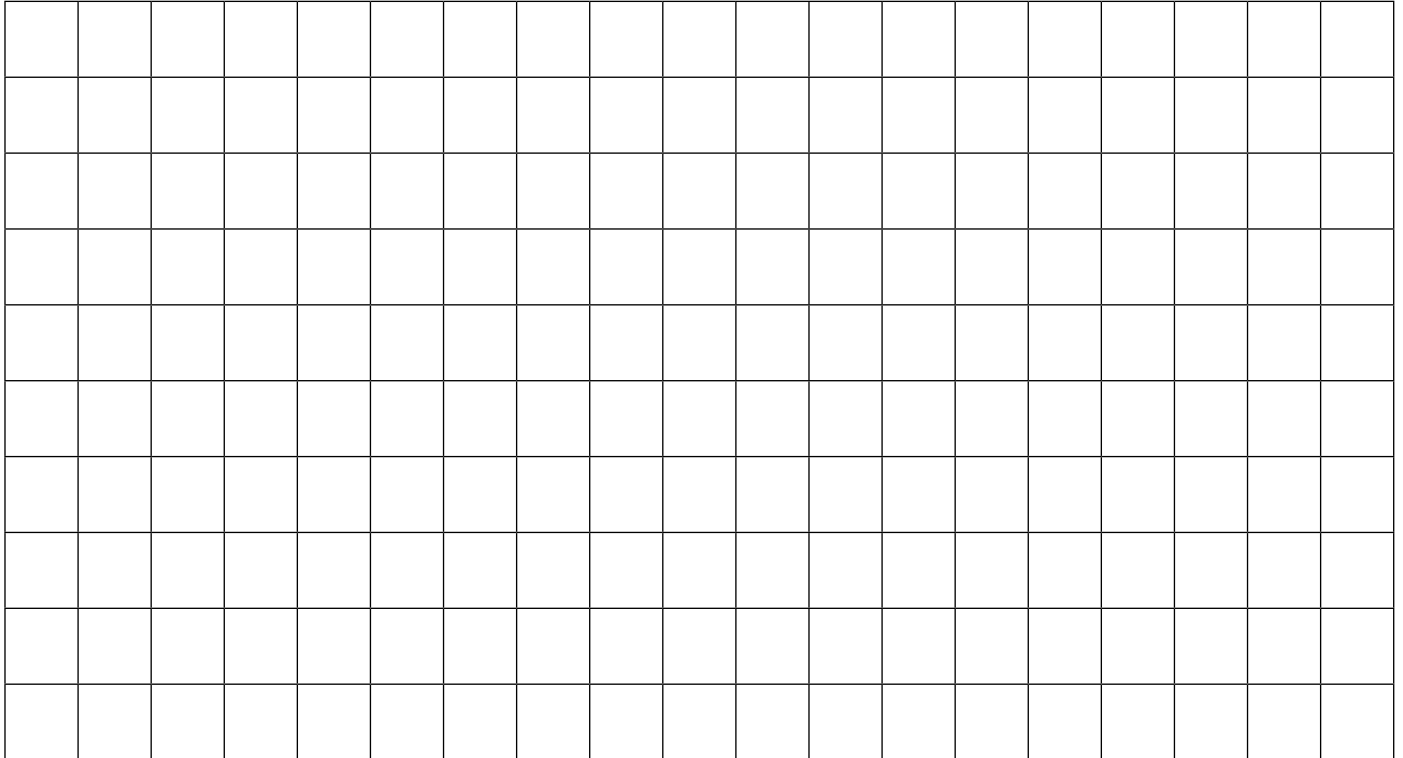




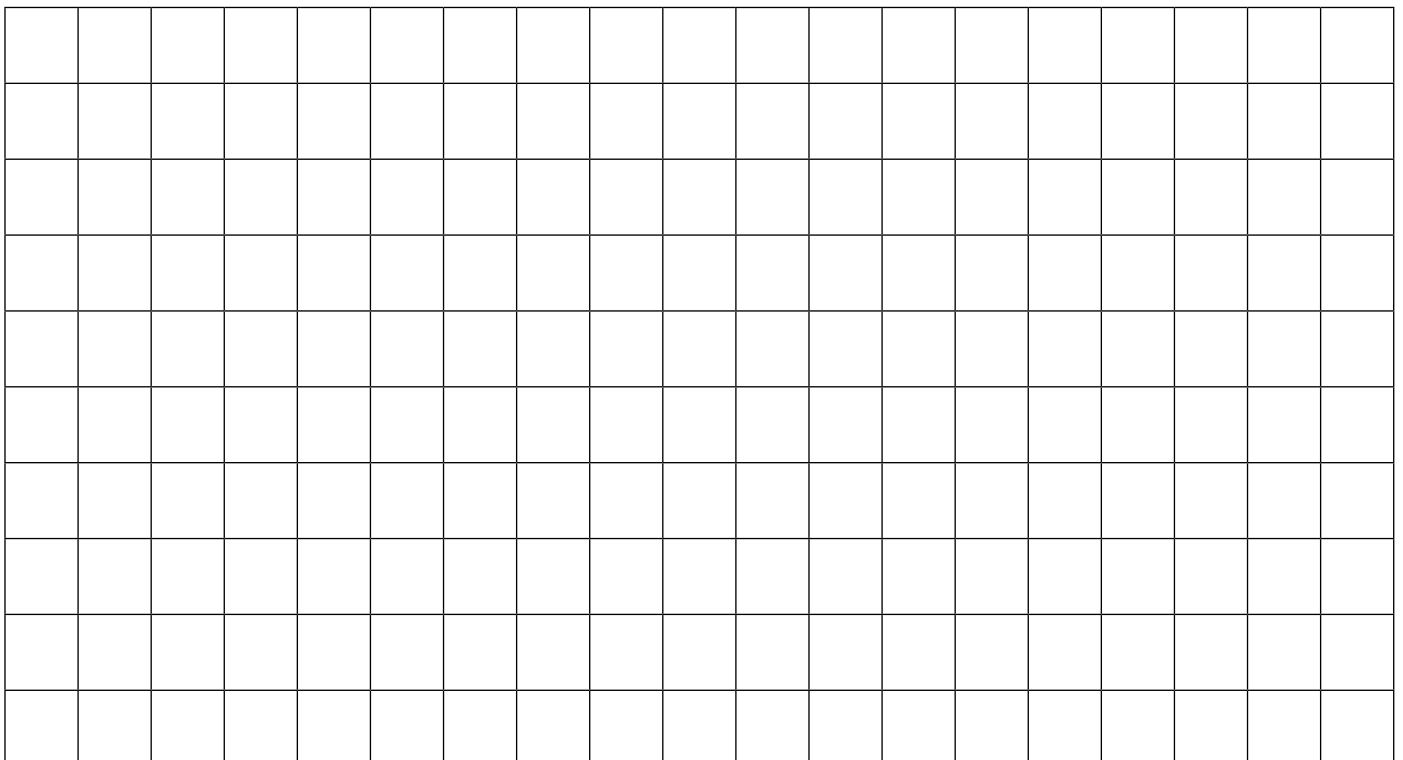
Scale Factor

4. On the grids, draw two shapes of your own, then enlarge them by a scale factor of your choice. Write the scale factor underneath the first shape in each pair.

a.



b.





Scale Factor

I can solve problems involving shapes where the scale factor is known or can be found.



1. On the grid, draw:

- a rectangle that is three squares long and two squares wide then enlarge the shape by a scale factor of two. Colour both shapes red.
- a square with sides of two squares then enlarge the shape by a scale factor of 1.5. Colour both shapes blue.





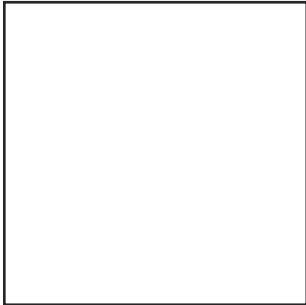
Scale Factor

2. Measure the shapes then enlarge them by the scale factor shown:

a. a scale factor of two



b. a scale factor of 2.5





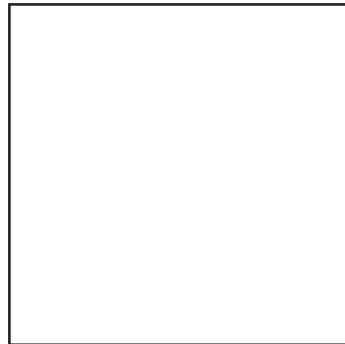
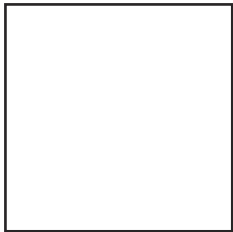
Scale Factor

3. Look at these enlargements. State what scale factor they have been enlarged by. You will need to measure the shapes.

a. scale factor: _____



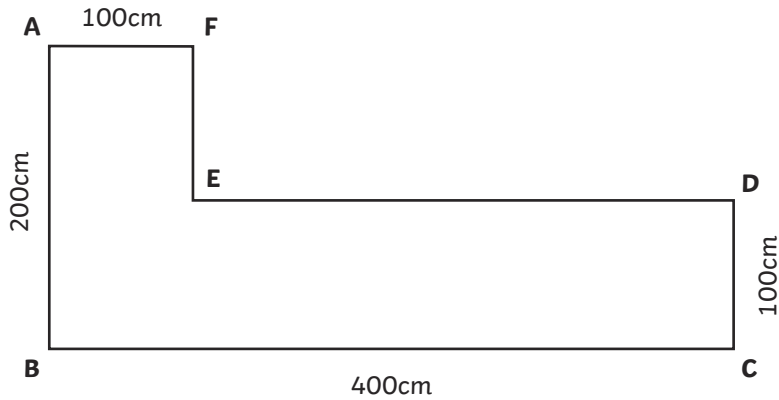
b. scale factor: _____





Scale Factor

4. Some of the sides of this shape have been given. If the shape was enlarged by a scale factor of two, write what the measurements would be:



Side	Measurement after enlargement
ab	
bc	
cd	
de	
ef	
fa	



Scale Factor

I can solve problems involving shapes where the scale factor is known or can be found.



1. On the grid, draw:

- a. a rectangle which is five squares long and three squares wide then enlarge the shape by a scale factor of two. Colour both shapes red.
- b. a square whose sides are four squares then enlarge the shape by a scale factor of 1.5. Colour both shapes blue.





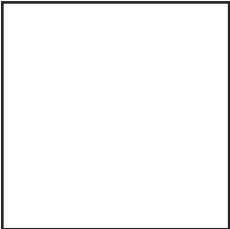
Scale Factor

2. Measure the shapes then enlarge them by the scale factor shown:

a. a scale factor of two



b. a scale factor of 2.5

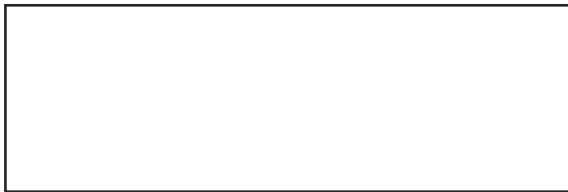




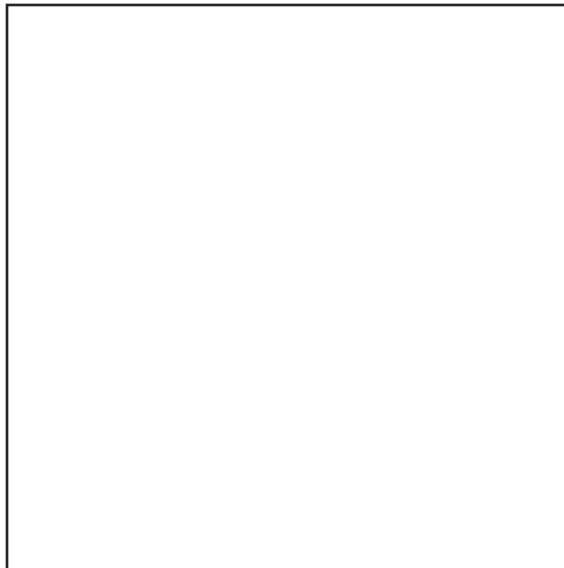
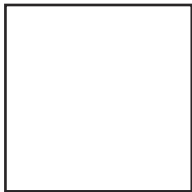
Scale Factor

3. Look at these enlargements. State what scale factor they have been enlarged by. You will need to measure the shapes.

a. scale factor: _____



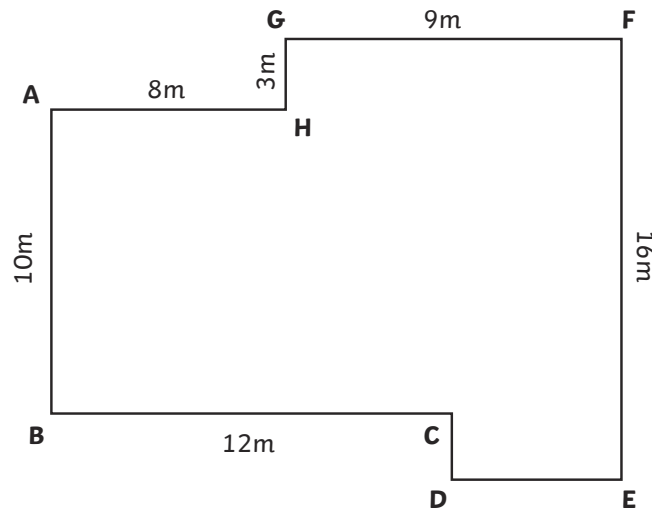
b. scale factor: _____





Scale Factor

4. Some of the sides of this shape have been given. If the shape was enlarged by a scale factor of 2.5, write what the measurements would be:



Side	Measurement after enlargement
ab	
bc	
cd	
de	
ef	
fg	
gh	
ha	



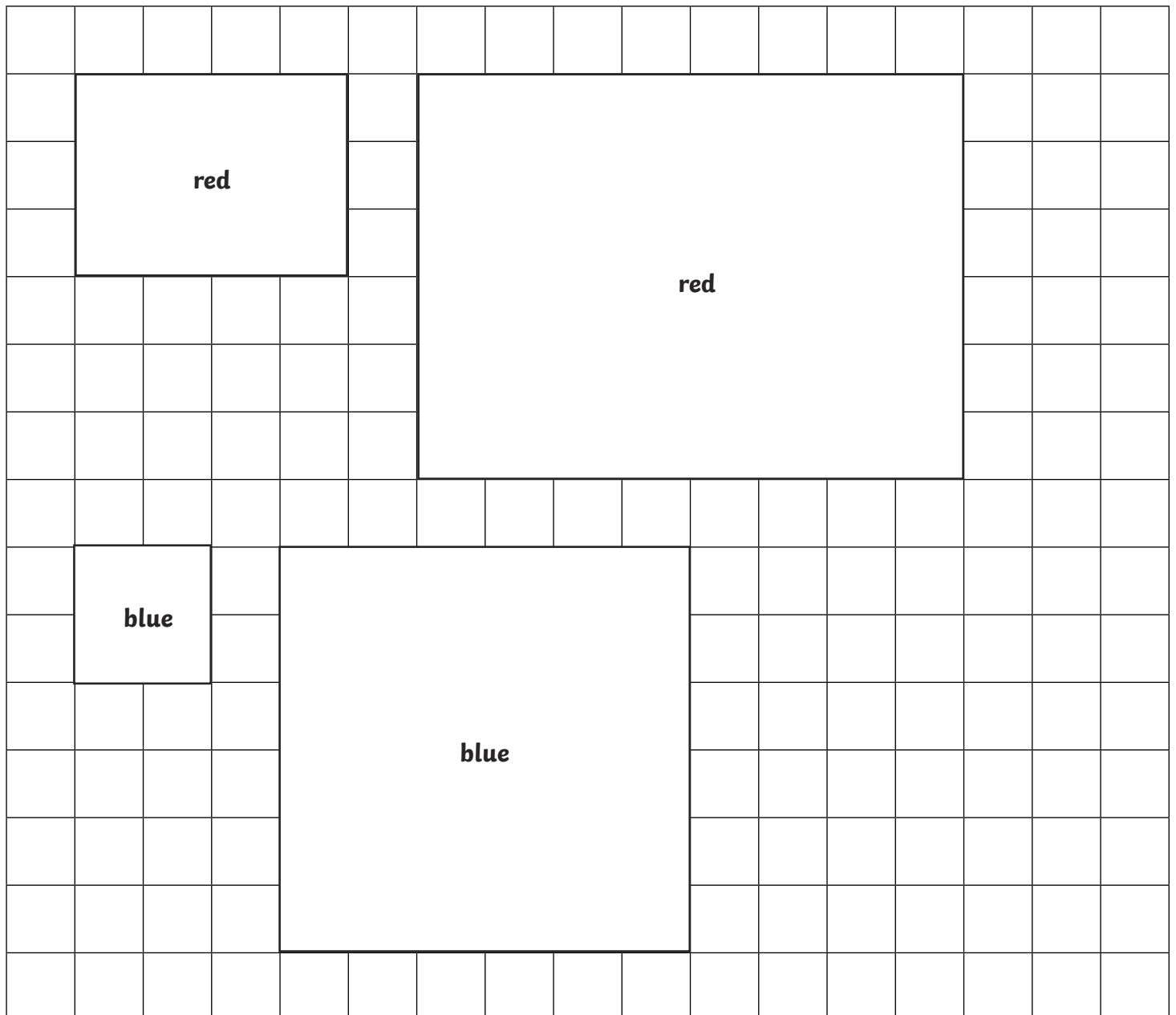
Scale Factor - Answers

I can solve problems involving shapes where the scale factor is known or can be found.



1. On the grid, draw:

- a rectangle that is four squares long and three squares wide then enlarge the shape by a scale factor of two. Colour both shapes red.
- a square with sides of two squares then enlarge the shape by a scale factor of three. Colour both shapes blue.





Scale Factor - Answers

2. Measure the shapes then enlarge them by the scale factor shown:
 - a. Shape drawn length 12cm, width 4cm
 - b. Shape drawn length 9cm and width 9cm

3. Look at these enlargements. State what scale factor they have been enlarged by. You will need to measure the shapes.
 - a. scale factor: scale factor of two

 - b. scale factor: scale factor of four

4. On the grids, draw two shapes of your own, then enlarge them by a scale factor of your choice. Write the scale factor underneath the first shape in each pair.

Multiple Answers



Scale Factor - Answers

2. Measure the shapes then enlarge them by the scale factor shown:
- Shape drawn length 13cm, width 5cm
 - Shape drawn length 10cm and width 10cm
3. Look at these enlargements. State what scale factor they have been enlarged by. You will need to measure the shapes.
- scale factor: scale factor of two
 - scale factor: scale factor of 1.5
4. Some of the sides of this shape have been given. If the shape was enlarged by a scale factor of 2.5, write what the measurements would be:

Side	Measurement after enlargement
ab	400cm
bc	800cm
cd	200cm
de	600cm
ef	200cm
fa	200cm

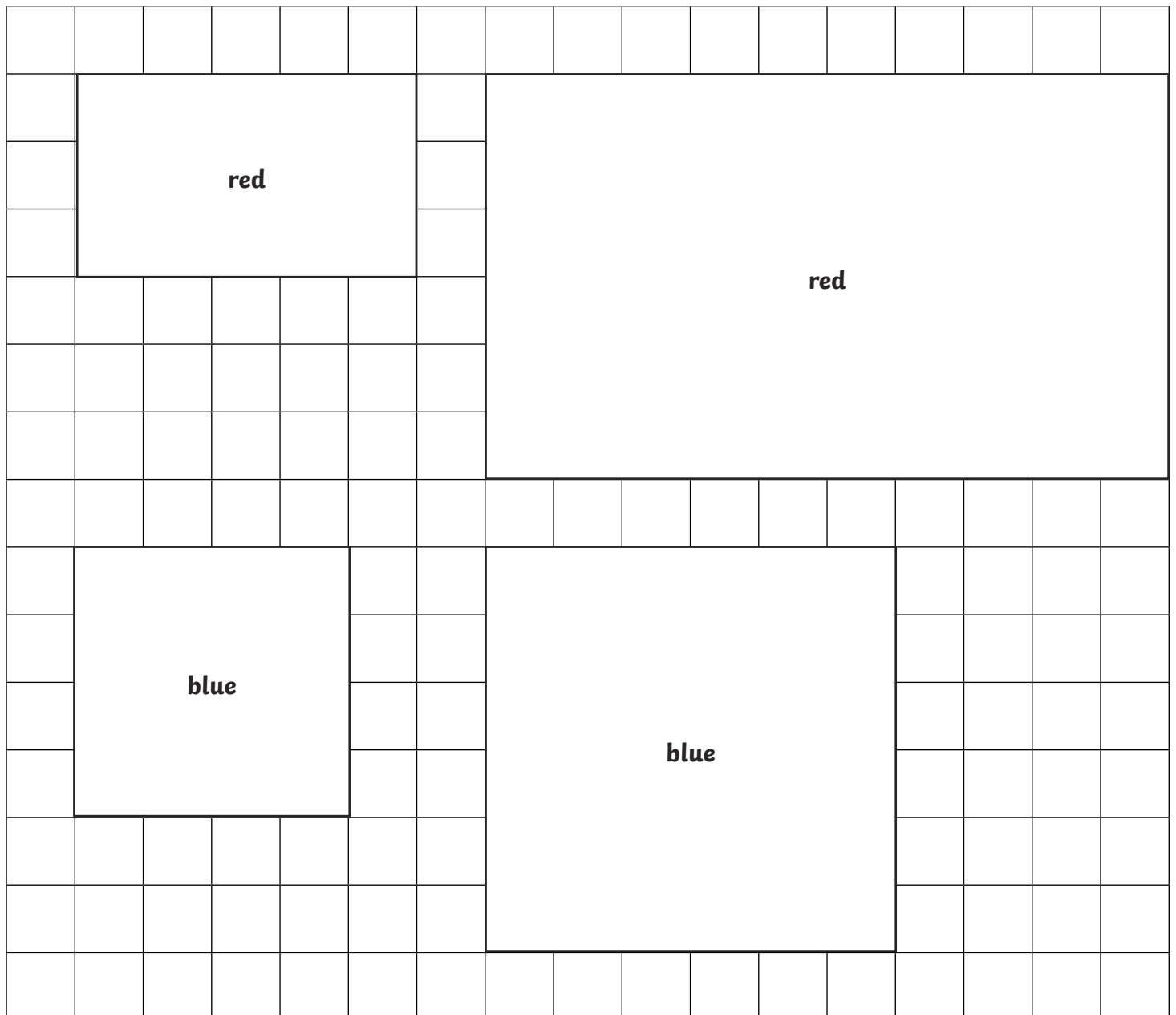
Scale Factor - Answers

I can solve problems involving shapes where the scale factor is known or can be found.



1. On the grid, draw:

- a rectangle which is five squares long and three squares wide then enlarge the shape by a scale factor of two. Colour both shapes red.
- a square whose sides are four squares then enlarge the shape by a scale factor of 1.5. Colour both shapes blue.





Scale Factor - Answers

2. Measure the shapes then enlarge them by the scale factor shown:
- a. Shape drawn length 15cm, width 7cm
 - b. Shape drawn length and width 7.5cm
3. Look at these enlargements. State what scale factor they have been enlarged by. You will need to measure the shapes.
- a. scale factor: scale factor of 2.5
 - b. scale factor: scale factor of three
4. Some of the sides of this shape have been given. If the shape was enlarged by a scale factor of two, write what the measurements would be:

Side	Measurement after enlargement
ab	25m
bc	30m
cd	7.5m
de	12.5m
ef	40m
fg	22.5m
gh	7.5m
ha	20m