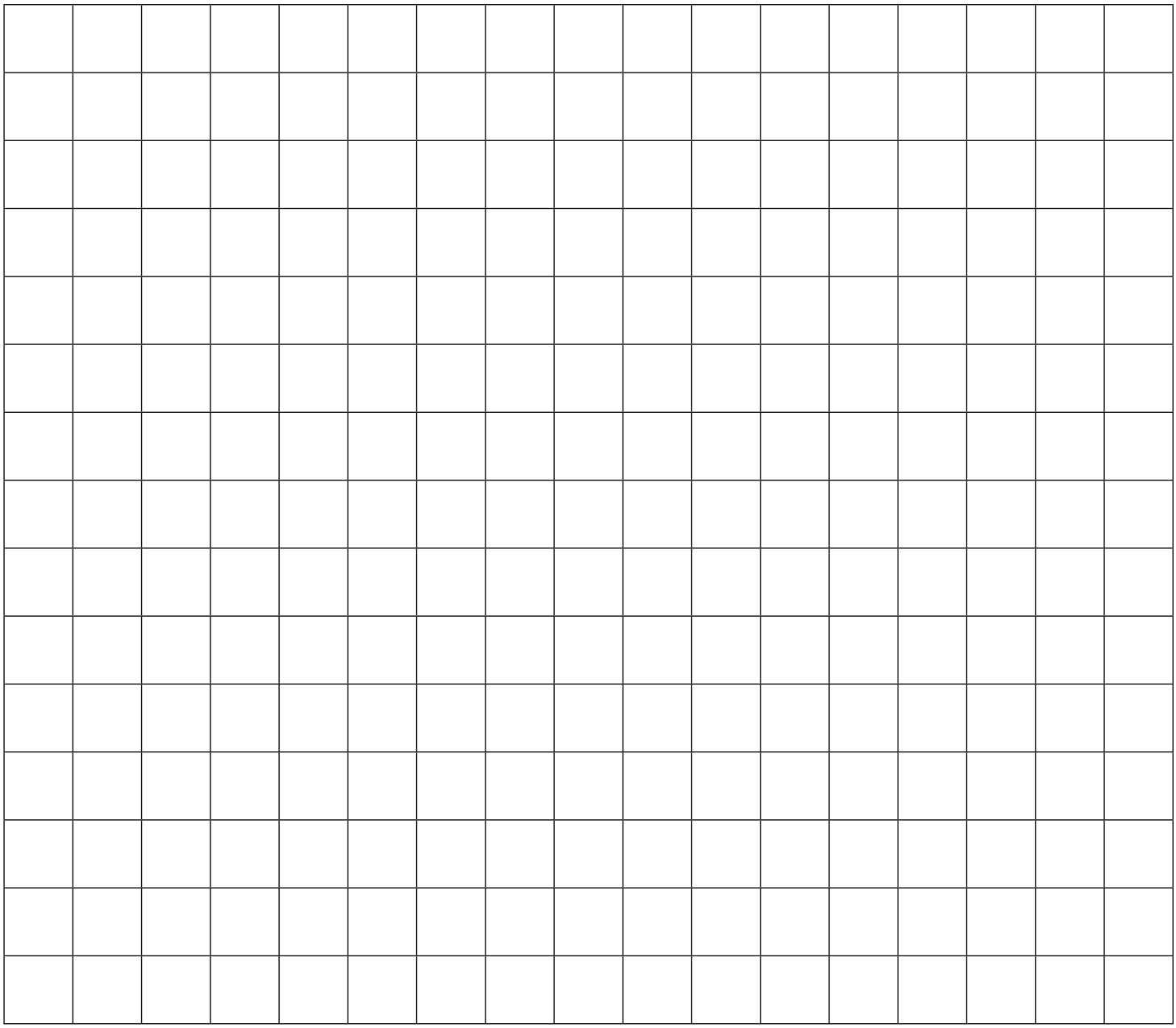
Scale Factor

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

1. On the grid, draw:

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

   b. a square with sides of two squares then enlarge the shape by a scale factor of three. Colour both shapes blue.

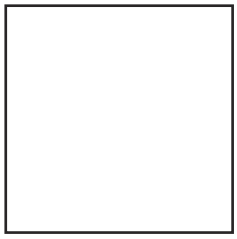


Scale Factor

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

   a. a scale factor of two

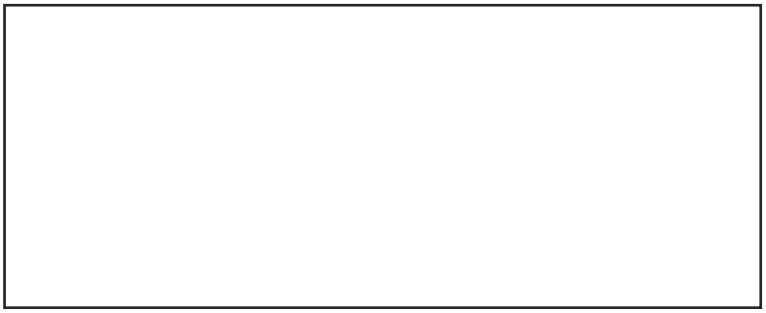
   b. a scale factor of three



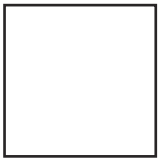
Scale Factor

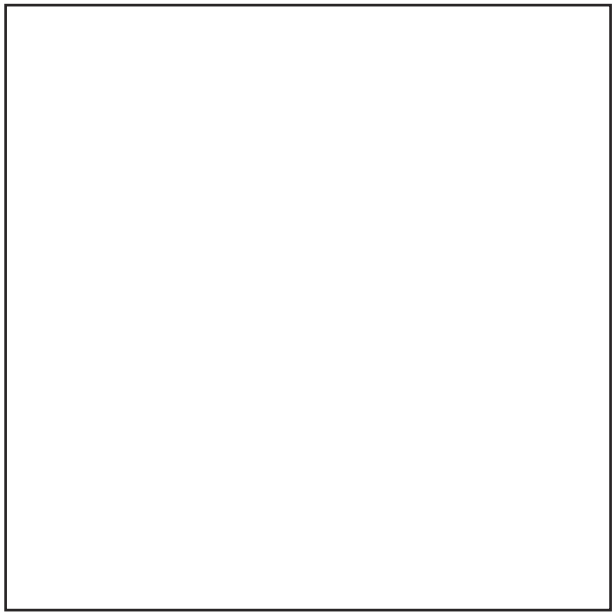
3. Look at these enlargements. State what scale factor they have been enlarged by. You will need to measure the shapes.

a. scale factor: _____



b. scale factor: _____

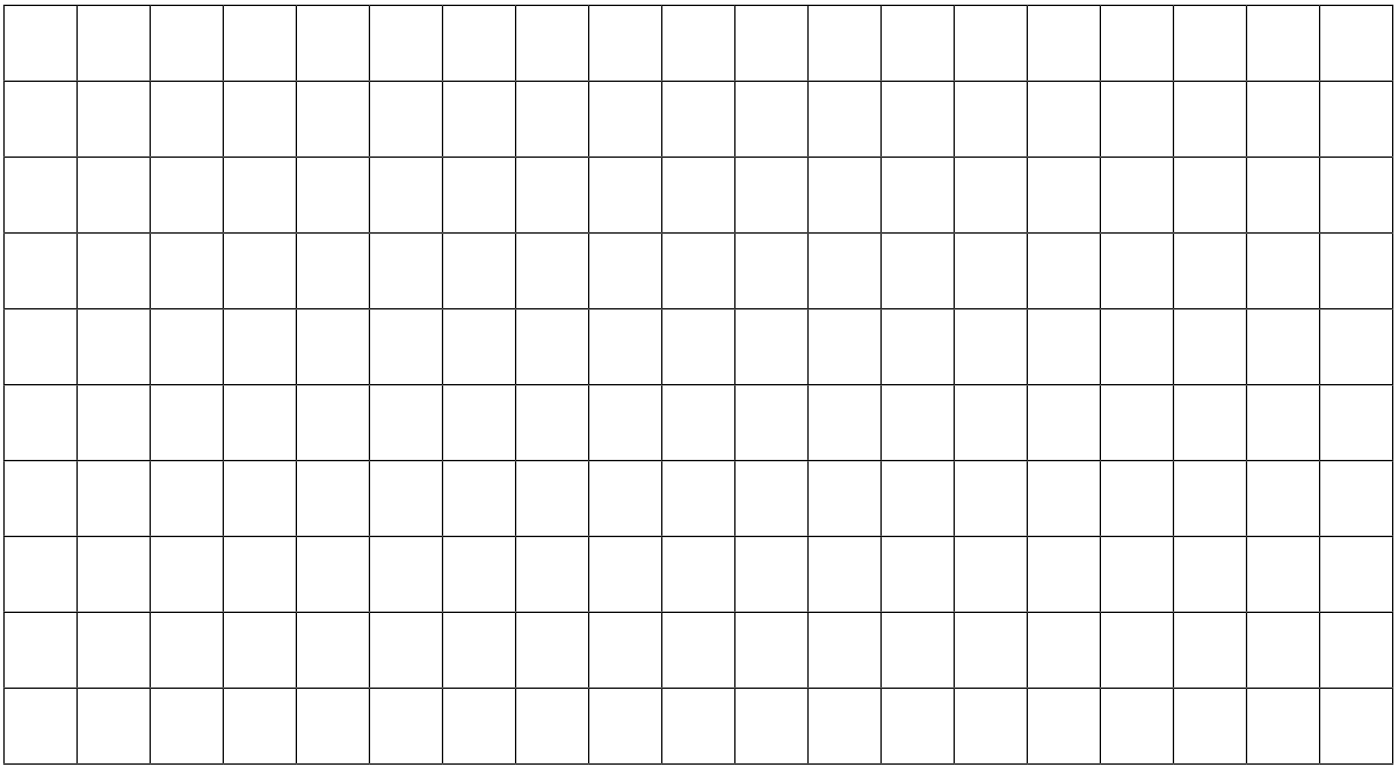




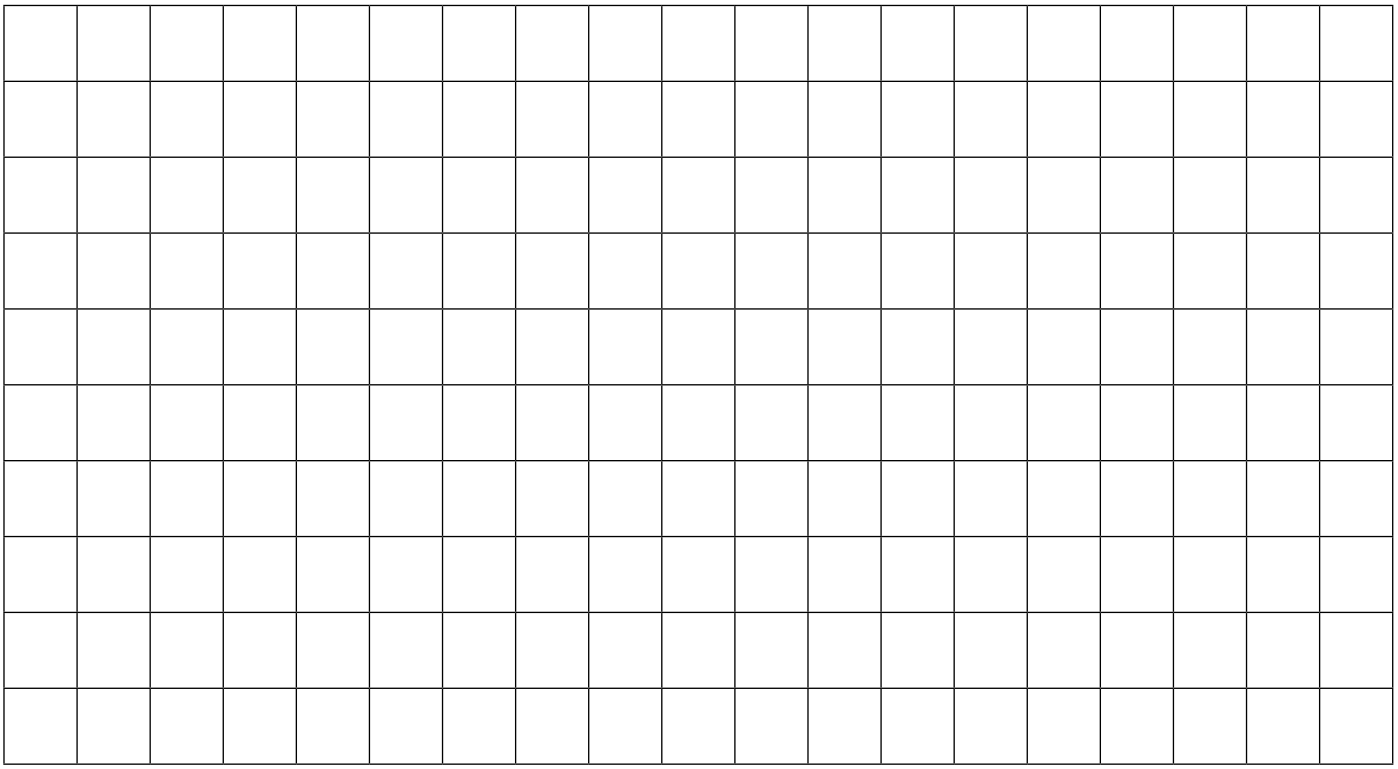
Scale Factor

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. 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.

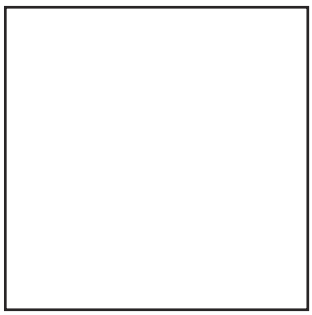
   b. a square with sides of two squares then enlarge the shape by a scale factor of 1.5. Colour both shapes blue.

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

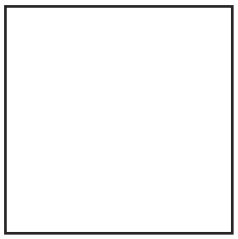


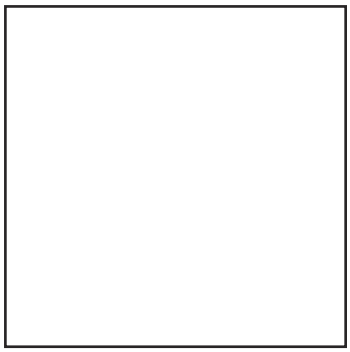
Scale Factor

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

a. scale factor: _____

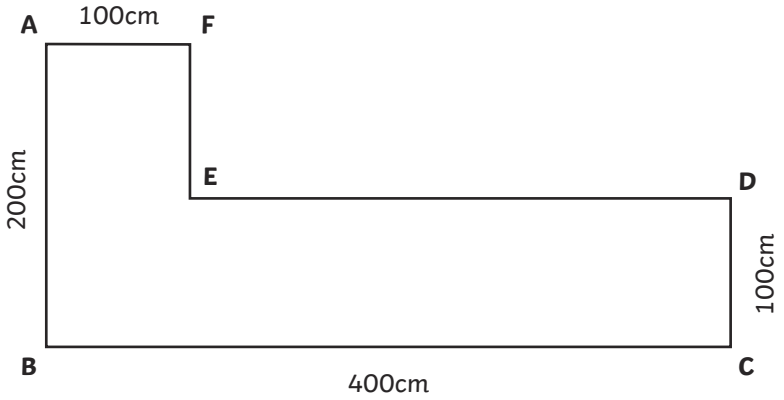
b. scale factor: _____





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.

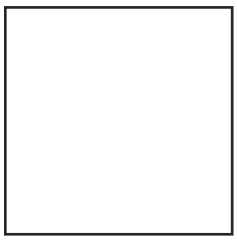
   b. a square whose sides are four squares then enlarge the shape by a scale factor of 1.5. Colour both shapes blue.

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

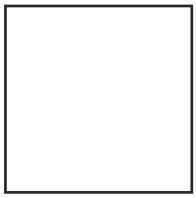


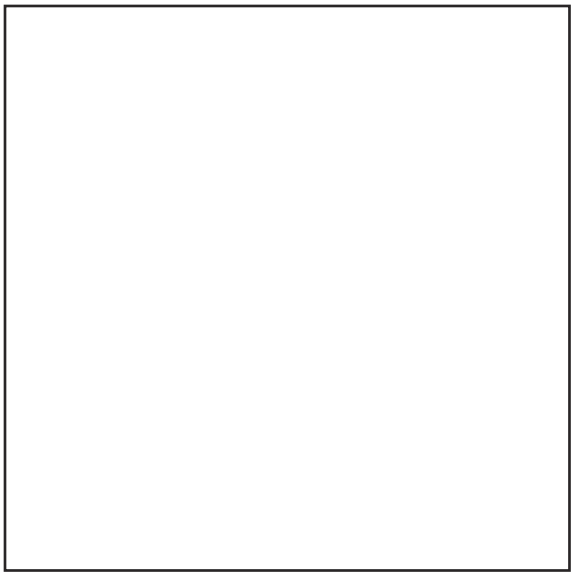
Scale Factor

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

a. scale factor: _____

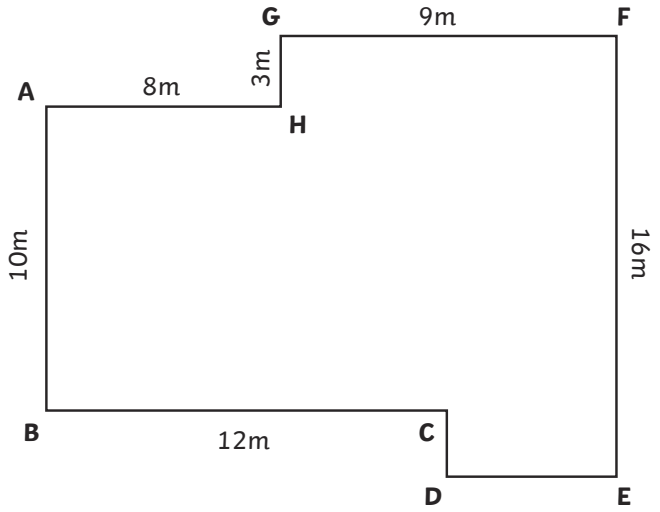
b. scale factor: _____





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	

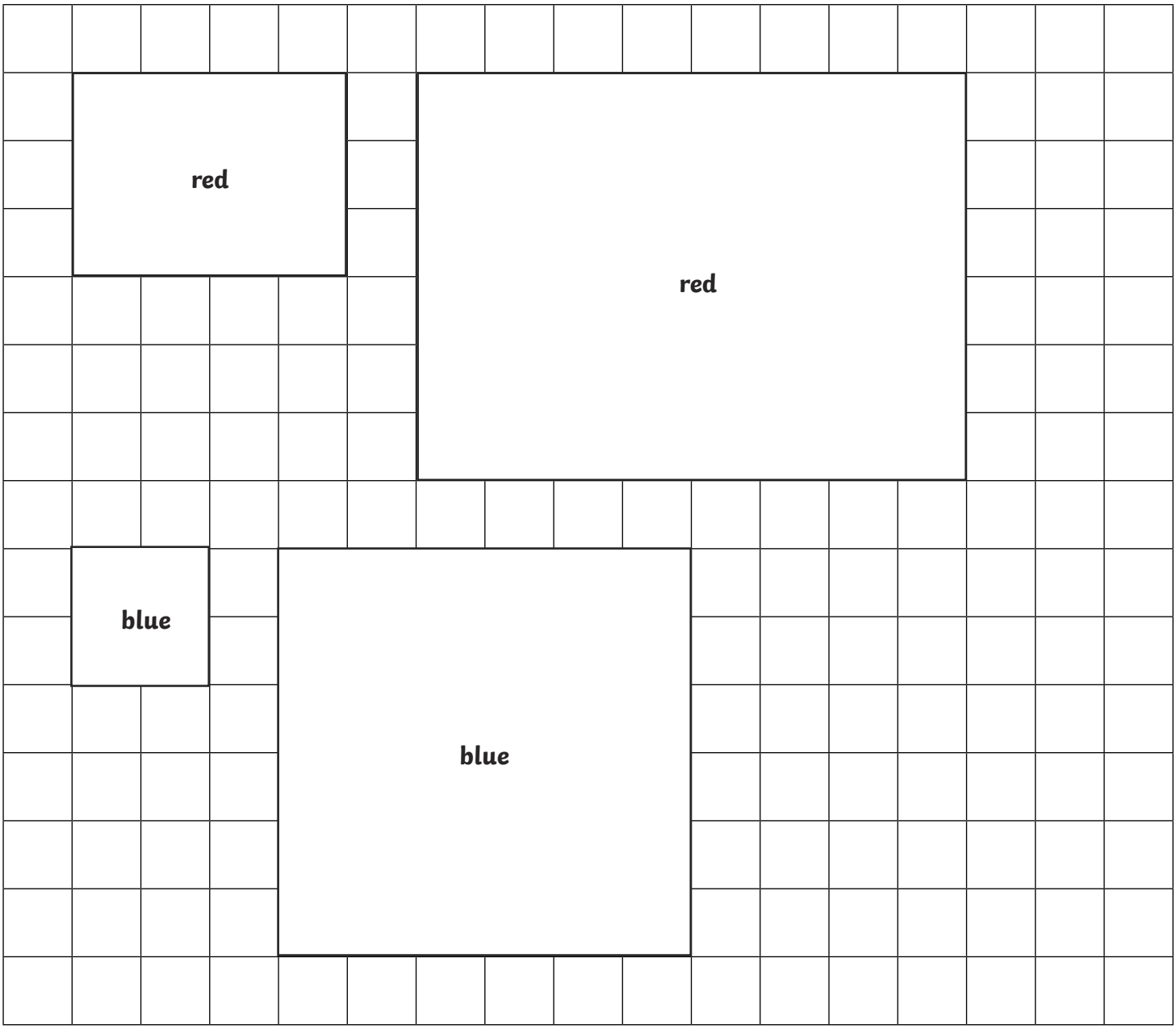
Scale Factor - **Answers**

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

1. On the grid, draw:

   a. 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.

   b. 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

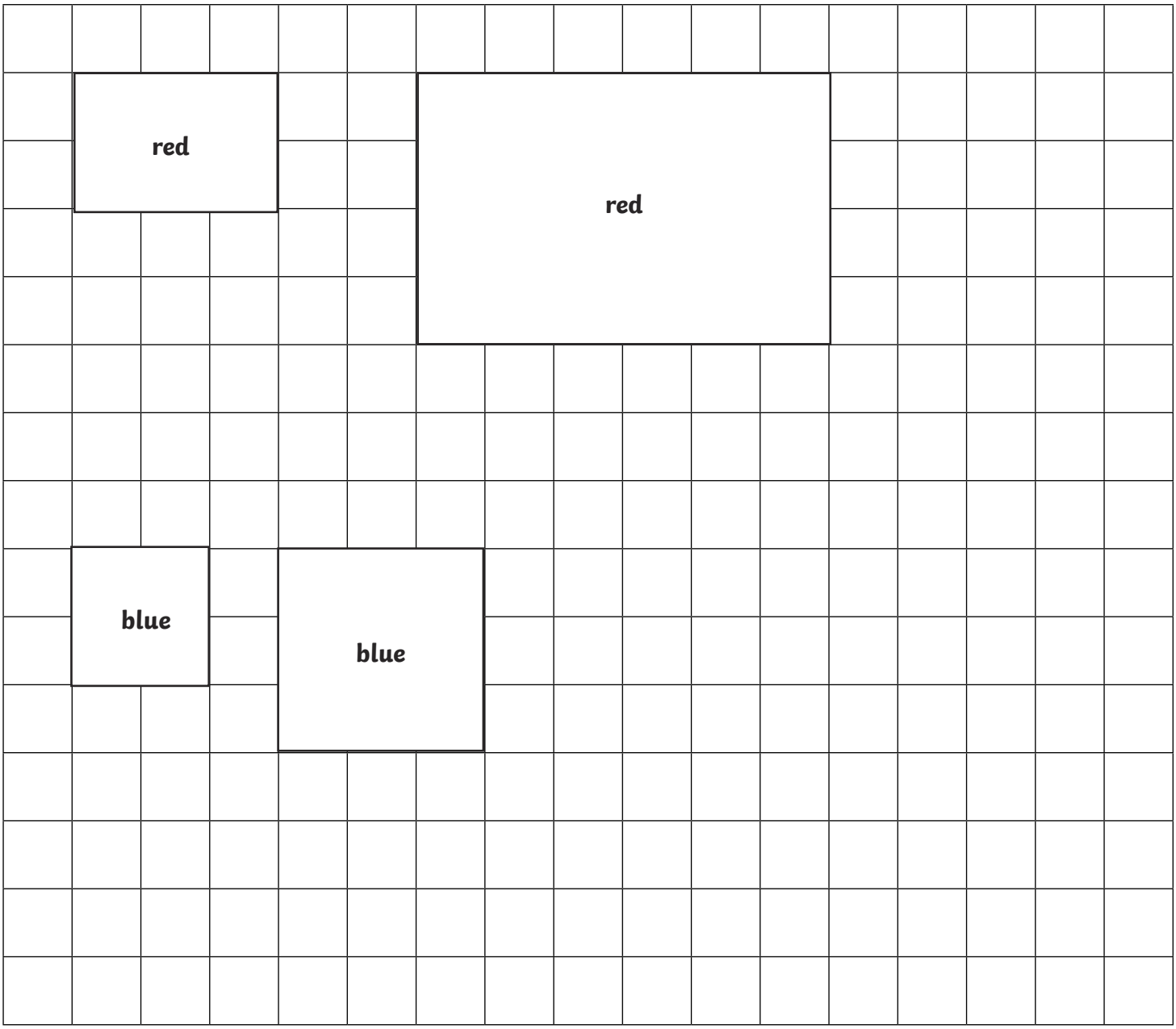
Scale Factor - **Answers**

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

1. On the grid, draw:

   a. 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.

   b. a square with sides of two 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 13cm, width 5cm**

   b. **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.

   a. scale factor: **scale factor of two**

   b. 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**

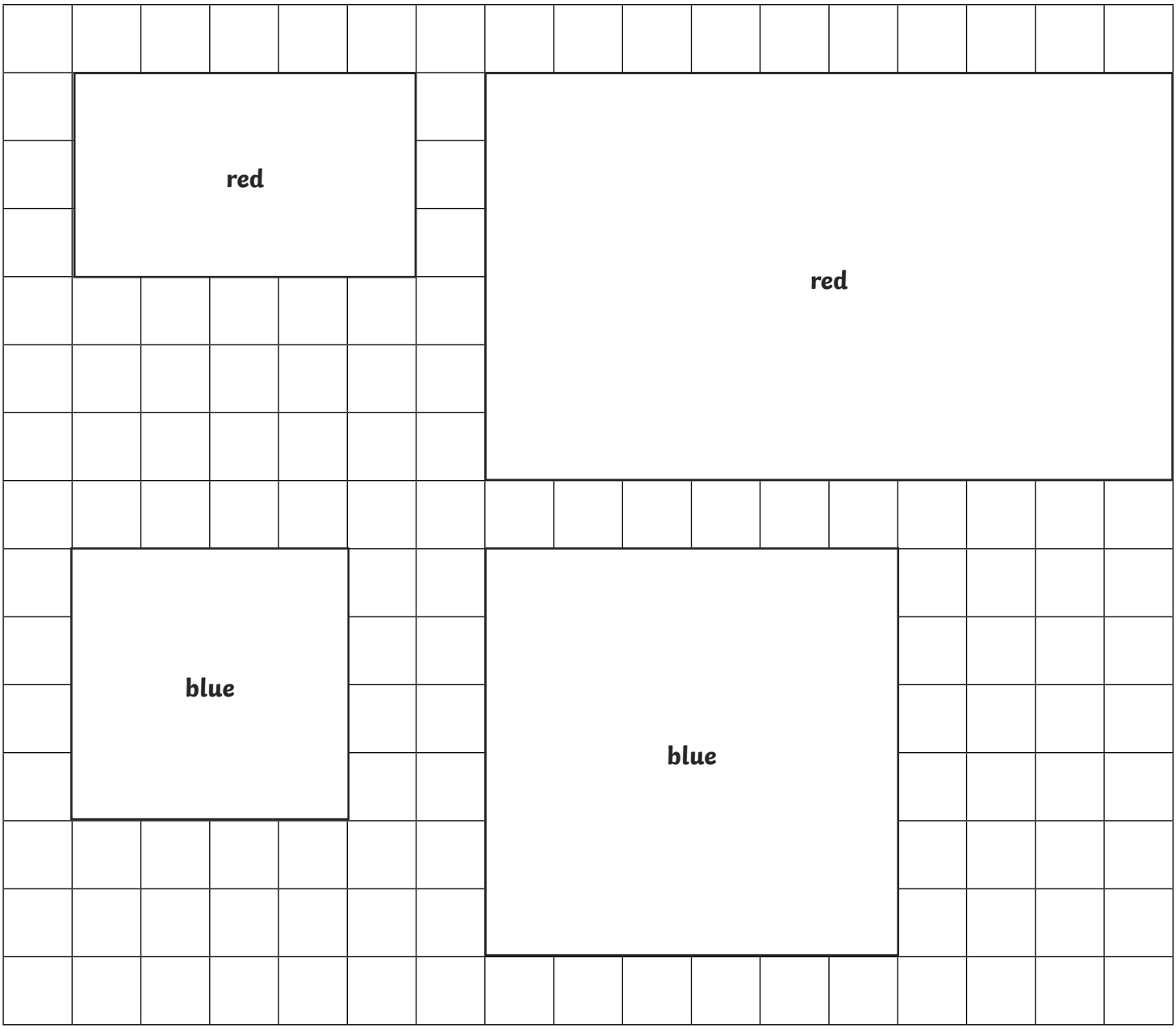
Scale Factor - **Answers**

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

1. On the grid, draw:

   a. 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 - **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**