Name: _____

GCSE (1 – 9)

Enlargement Using a Negative Scale Factor

Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided there may
  – be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise
  – indicated.
- You must show all your working out.

Information

- The marks for each question are shown in brackets use
  – this as a guide as to how much time to spend on each
  question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
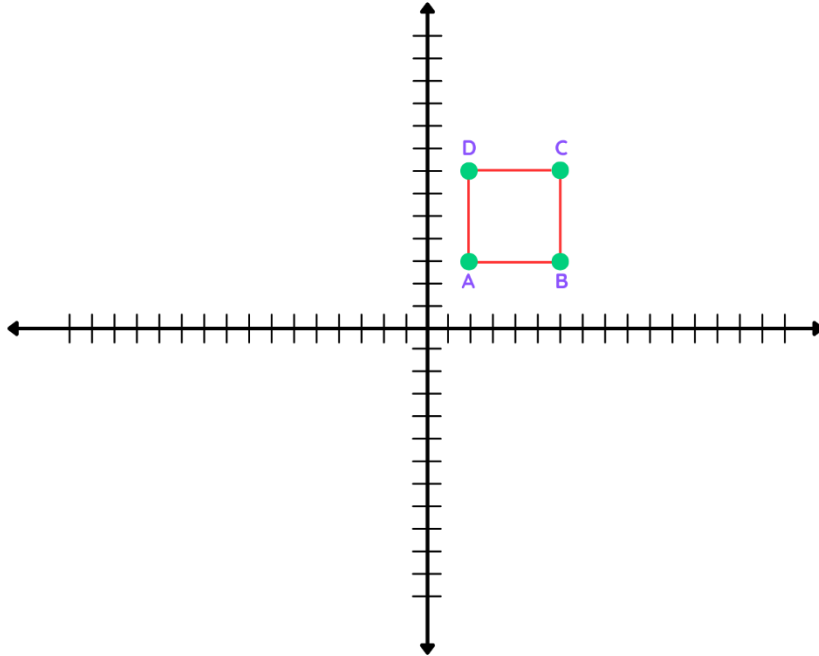- Check your answers if you have time at the end

My Exam Revision

Q1. Point P(4, 6) is enlarged with a negative scale factor of –2 from the center of enlargement (0, 0).

Find the coordinates of the new point.

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My Exam Revision

Q2. For the figure given below, Enlarge the rectangle by a scale factor of –3 with the center of enlargement at (0, 0).
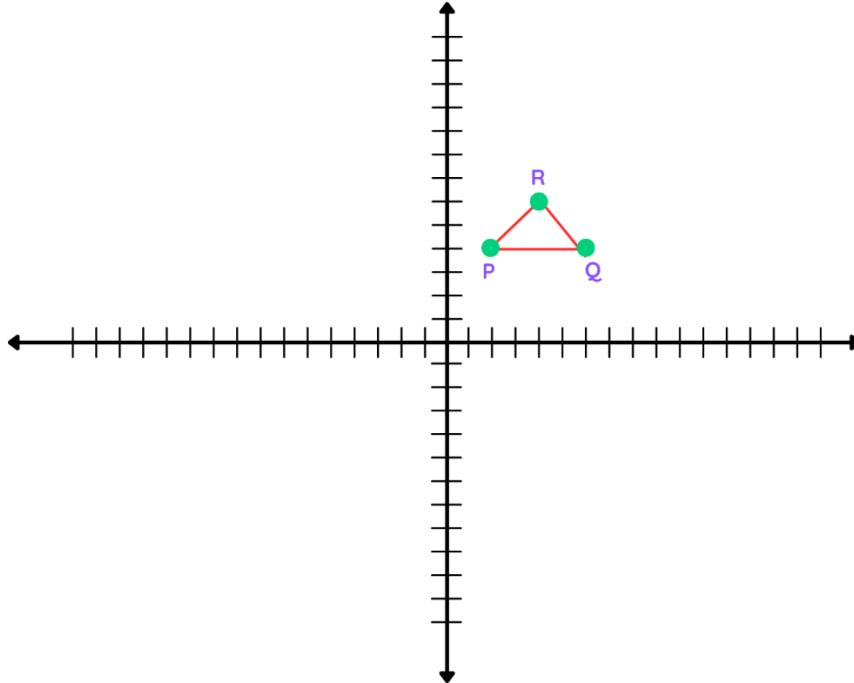
Determine the coordinates of the enlarged rectangle.

Q3. The center of enlargement is (2, 2), and a square with vertices

A(3, 3), B(5, 3), C(5, 5), and D(3, 5) is enlarged by a scale factor of –1.

Find the coordinates of the vertices of the enlarged square.

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My Exam Revision

Q4. For the figure given below, Enlarge the triangle using a negative scale factor of –1.5 with the center of enlargement at (1, 1).

Find the coordinates of the image.

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(Total 5 marks)

Q5. Point A(5, 7) is enlarged by a scale factor of -4 with the center of enlargement at (1, 2).

....
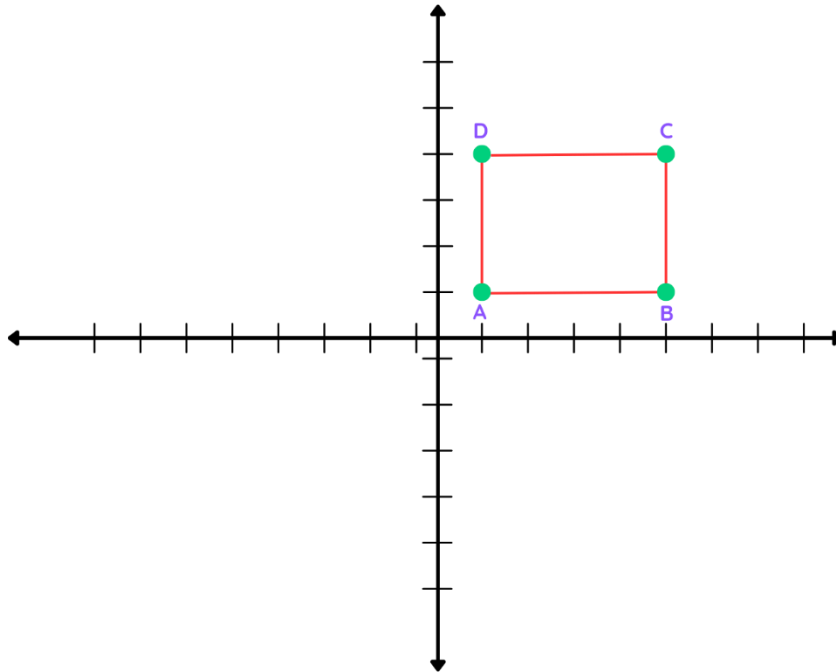
My Exam Revision

Q6. A triangle has vertices X(2, 2), Y(6, 2), and Z(4, 6).

It is enlarged by a scale factor of –2, with the center of enlargement at (3, 3).

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My Exam Revision

Q7. For the figure given below, It is enlarged by a scale factor of –1.5 from the center of enlargement (2, 2).

Q8. A pentagon has vertices P(2, 3), Q(4, 5), R(6, 3), S(5, 1), and T(3, 1). It is enlarged by a scale factor of –0.5 with the center of enlargement at (3, 3).

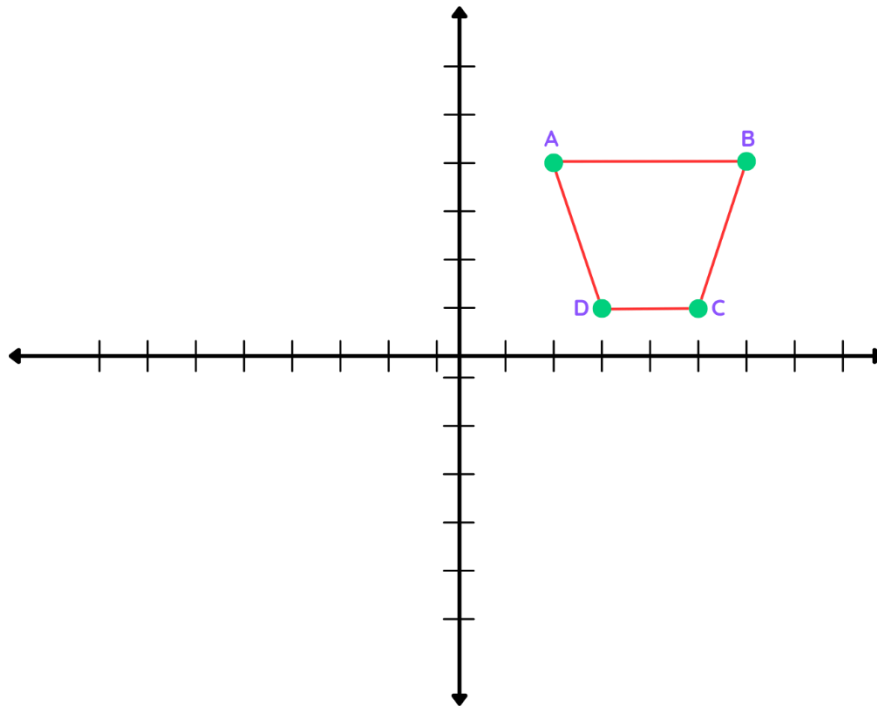...

(Total 5 marks)

Q9. A triangle has vertices P(3, 2), Q(7, 2), and R(5, 5).

It is enlarged by a negative scale factor of –2 with the center of

enlargement at (4, 4). Find the coordinates of the enlarged triangle.

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Q10. For the figure given below, It is enlarged by a negative scale factor of –3 with the center of enlargement at (4, 3).

Find the coordinates of the enlarged trapezium.