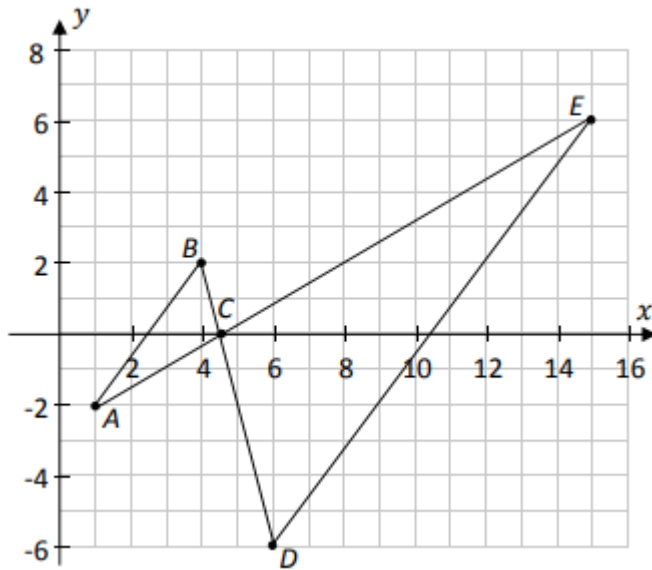


## Enlargement & Scale Factor Exam & Mock Questions

### Q1. 2017 (Exam)

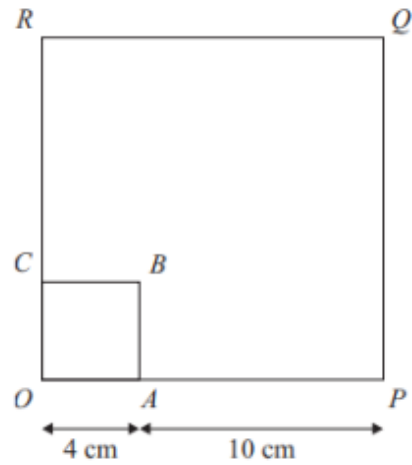


The triangle CDE is an enlargement of the triangle CBA.

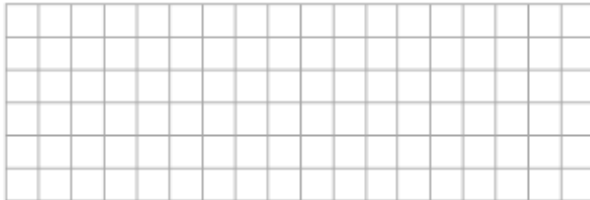
- (i) Given that the length of AB is 5 units and DE is 15 units, find the scale factor of the enlargement.
- (ii) Use this scale factor to find the area of the triangle CDE given that the area of the triangle ABC is 4 units<sup>2</sup>.

**Q2. 2016 (Mock)**

The square  $OPQR$  is the image of the square  $OABC$  under an enlargement with centre  $O$ , as shown.  
 $|OA| = 4$  cm and  $|AP| = 10$  cm.



- (a) Find the scale factor of the enlargement.



- (b)  $AC$  is  $4\sqrt{2}$ . Hence, use the scale factor to find  $PR$ .



- (c) Under another enlargement with centre  $O$ , the area of the image of the square  $OABC$  is  $81$  cm<sup>2</sup>. Find the scale factor of this enlargement.



**Q3. 2014 (Mock)**

The area of a triangle ABC is  $21.33 \text{ cm}^2$ . Triangle A'B'C' is an enlargement of ABC. Find the area of A'B'C' if the scale factor of enlargement is 2.5.

