

Enlargements

Video 104 on www.corbettmaths.com

Examples

Workout



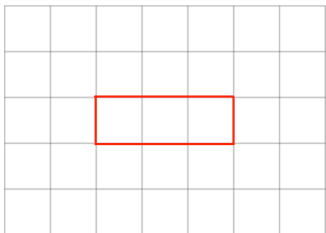
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Scan here

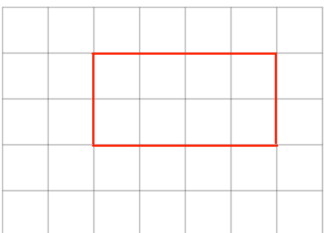
Question 1: Copy these shapes and then enlarge by the scale factor given.

(a)



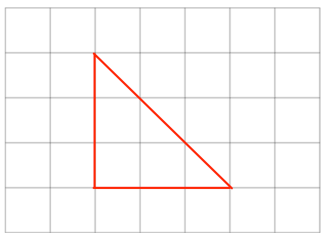
Enlarge by scale factor 3

(b)



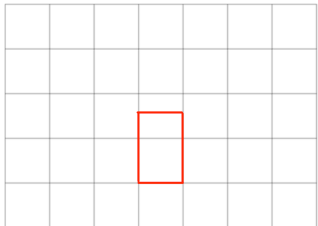
Enlarge by scale factor 2

(c)



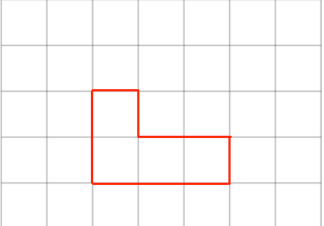
Enlarge by scale factor 3

(d)



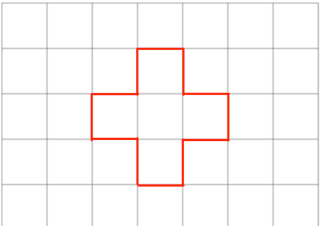
Enlarge by scale factor 4

(e)



Enlarge by scale factor 2

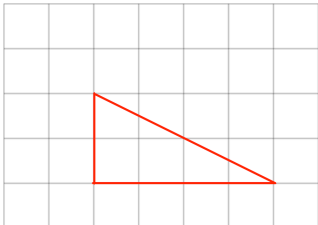
(f)



Enlarge by scale factor 4

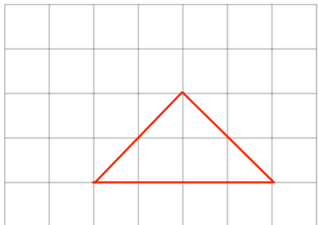
Question 2: Copy these shapes and then enlarge by the scale factor given.

(a)



Enlarge by scale factor 2

(b)



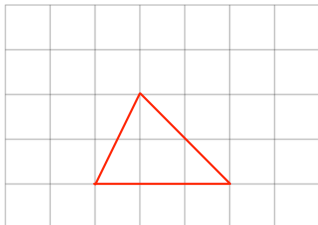
Enlarge by scale factor 3

(c)



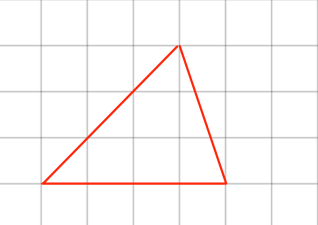
Enlarge by scale factor 2

(d)



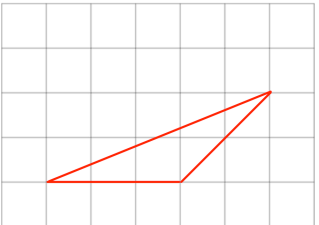
Enlarge by scale factor 2

(e)



Enlarge by scale factor 3

(f)



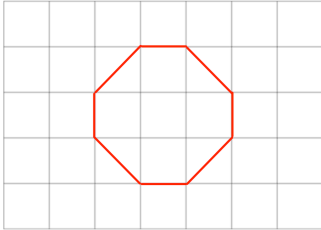
Enlarge by scale factor 2

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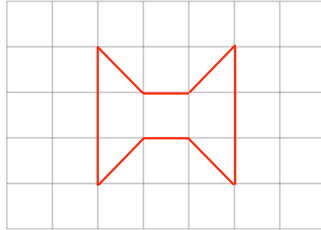
Question 3: Copy these shapes and then enlarge by the scale factor given.

(a)



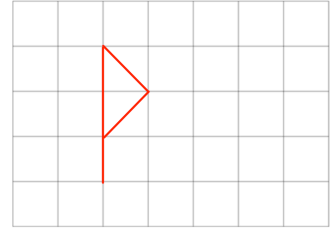
Enlarge by scale factor 4

(b)



Enlarge by scale factor 2

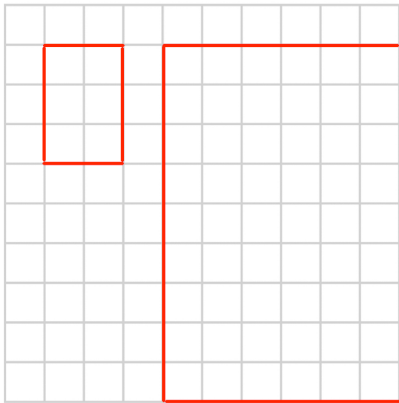
(c)



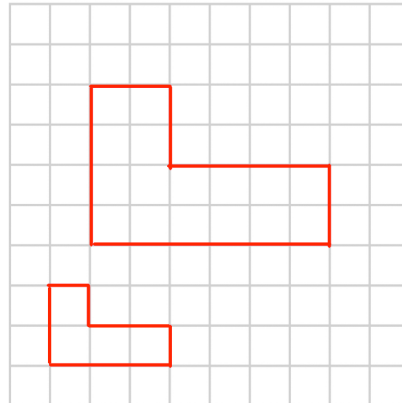
Enlarge by scale factor 3

Question 4: Shown below is an object and its enlargement.
For each, write down the scale factor of enlargement.

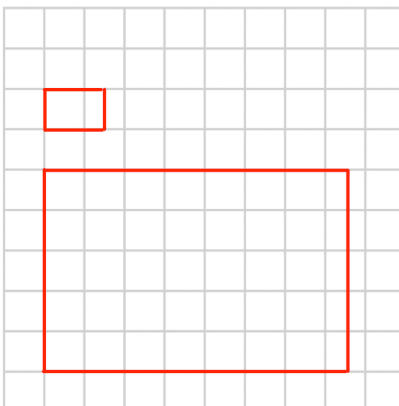
(a)



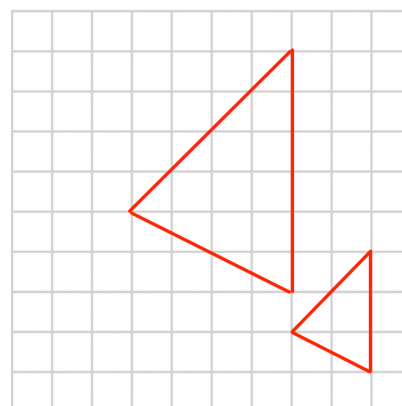
(b)



(c)



(d)



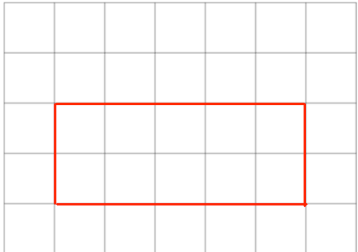
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Apply

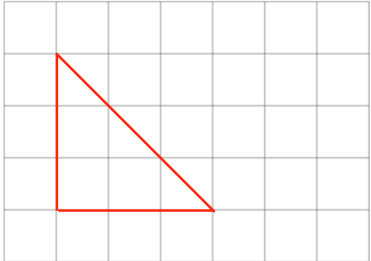
Question 1: Shown is a rectangle drawn on a centimetre squared grid.

- (a) Find the area of the rectangle.
- (b) Enlarge the rectangle by scale factor 2 on centimetre squared paper.
- (c) Find the area of the enlarged rectangle.
- (d) How many times larger is the area of the enlarged rectangle than the original?



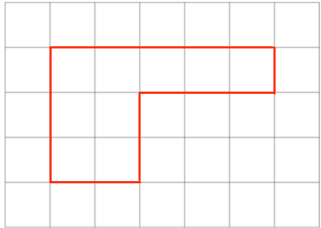
Question 2: Shown is a triangle drawn on a centimetre squared grid.

- (a) Find the area of the triangle.
- (b) Enlarge the triangle by scale factor 3 on centimetre squared paper.
- (c) Find the area of the enlarged triangle.
- (d) How many times larger is the area of the enlarged triangle than the original?

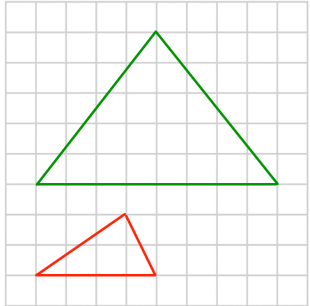


Question 3: Shown is a shape drawn on a centimetre squared grid.

- Reg is going to enlarge the shape by scale factor 5.
- (a) Without enlarging the shape, can you predict what the area of the enlarged shape will be?
 - (b) Enlarge the shape by scale factor 5 and check your prediction.



Question 4: Charlie has enlarged the triangle by scale factor 2. Can you spot any mistakes? His answer is in green.



Answers



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