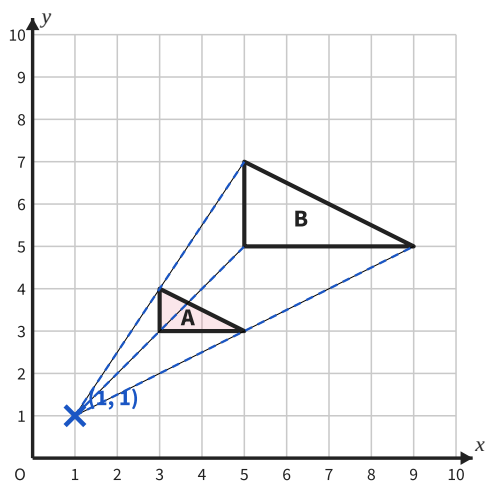




1

Describe fully the single transformation that maps A onto B.

Transformation

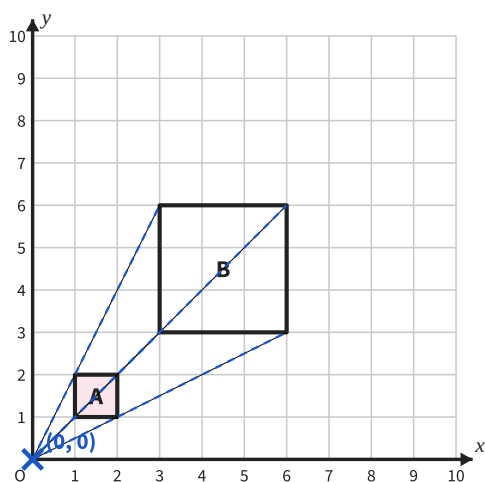
Enlargement

Scale factor

2

Centre of enlargement

(1, 1)



2

Describe fully the single transformation that maps A onto B.

Transformation

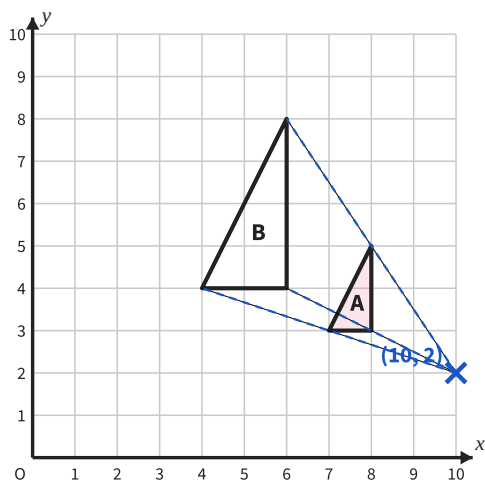
Enlargement

Scale factor

3

Centre of enlargement

(0, 0)



3

Describe fully the single transformation that maps A onto B.

Transformation

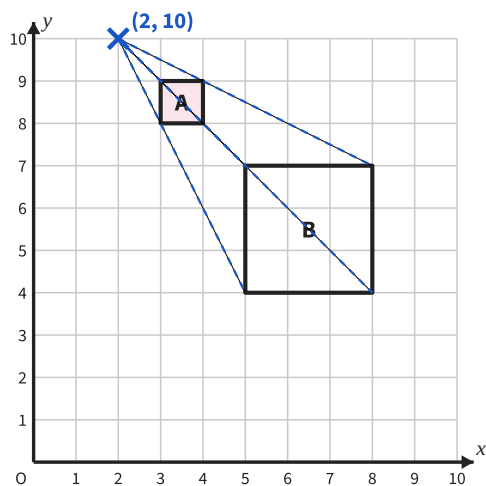
Enlargement

Scale factor

2

Centre of enlargement

(10, 2)



4

Describe fully the single transformation that maps A onto B.

Transformation

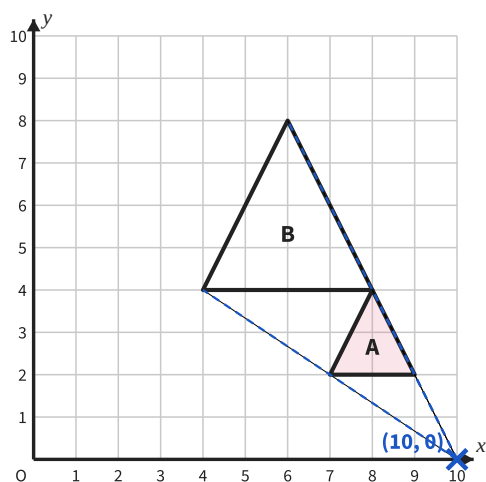
Enlargement

Scale factor

3

Centre of enlargement

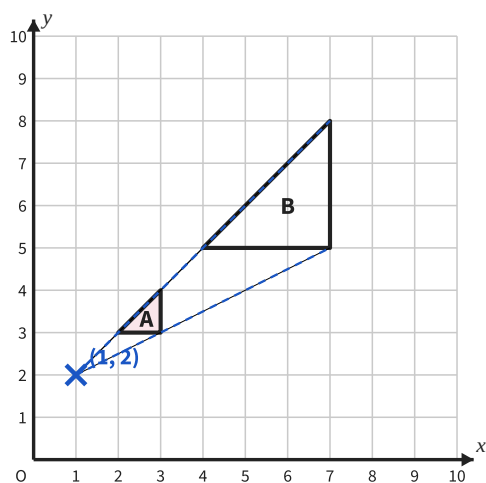
(2, 10)



5

Describe fully the single transformation that maps A onto B.

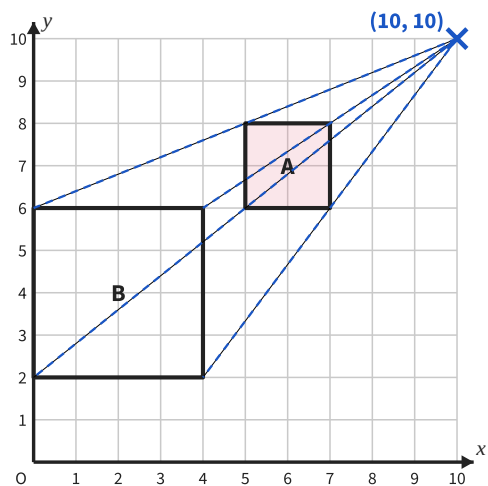
Enlargement, scale factor 2, centre (10, 0)



6

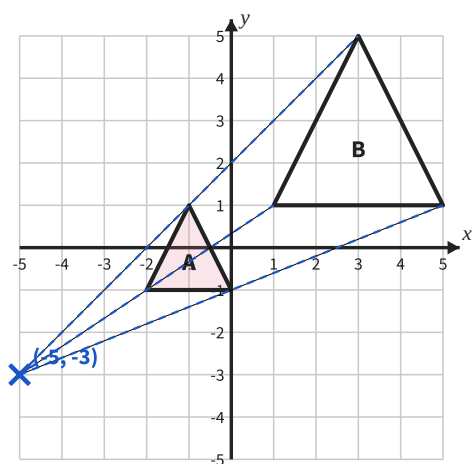
Describe fully the single transformation that maps A onto B.

Enlargement, scale factor 3, centre (1, 2)



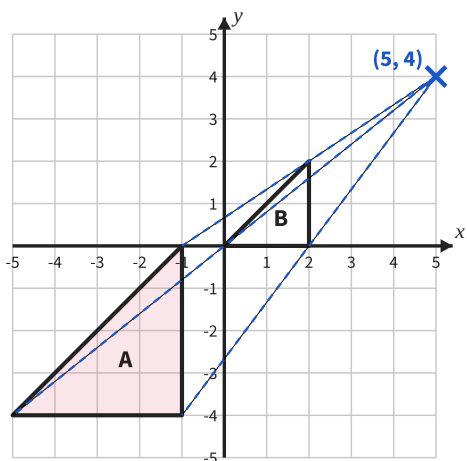
7 Describe fully the single transformation that maps A onto B.

Enlargement, scale factor 2, centre (10, 10)



8 Describe fully the single transformation that maps A onto B.

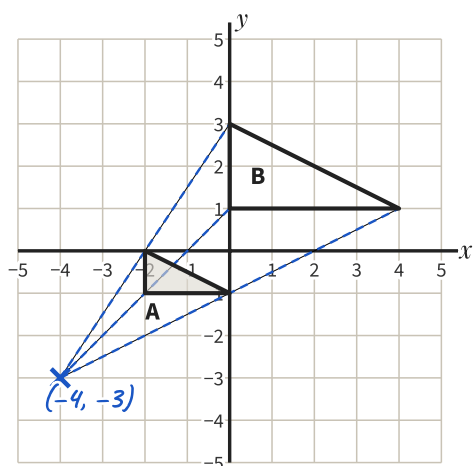
Enlargement, scale factor 2, centre (-5, -3)



9 Describe fully the single transformation that maps A onto B.

Enlargement, scale factor $\frac{1}{2}$, centre (5, 4)

8

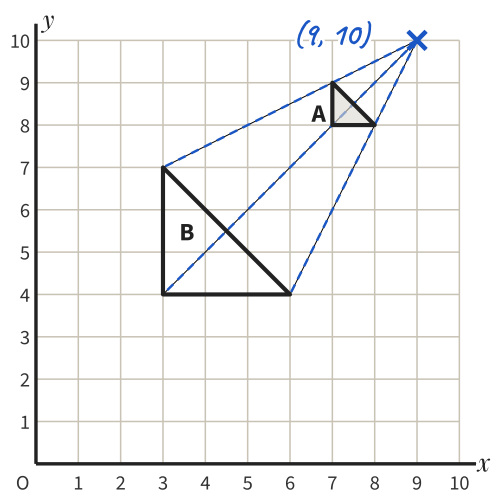


Describe fully the single transformation that maps A onto B.

Enlargement, scale factor 2,

centre $(-4, -3)$

9

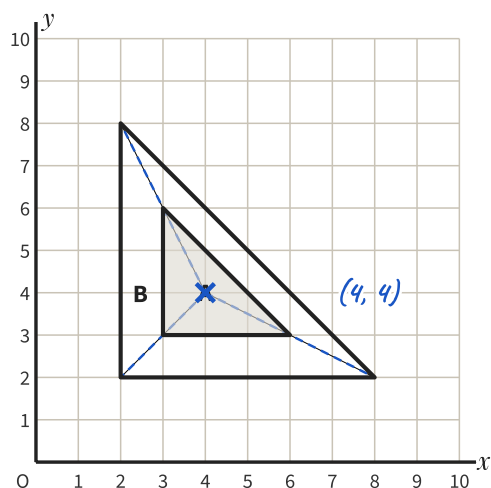


Describe fully the single transformation that maps B onto A.

Enlargement, scale factor $\frac{1}{3}$,

centre $(9, 10)$

10

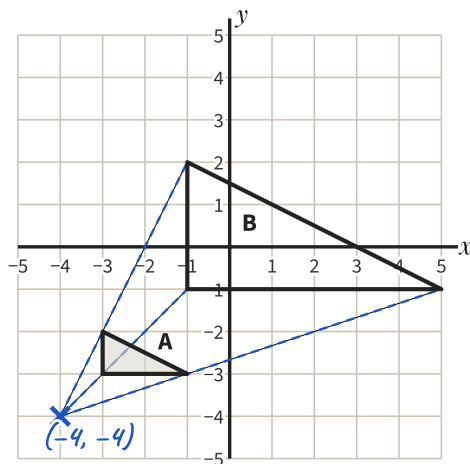


Describe fully the single transformation that maps A onto B.

Enlargement, scale factor 2,

centre $(4, 4)$

11



The lamp of a projector is at the centre of enlargement.

It projects picture A to make picture B.

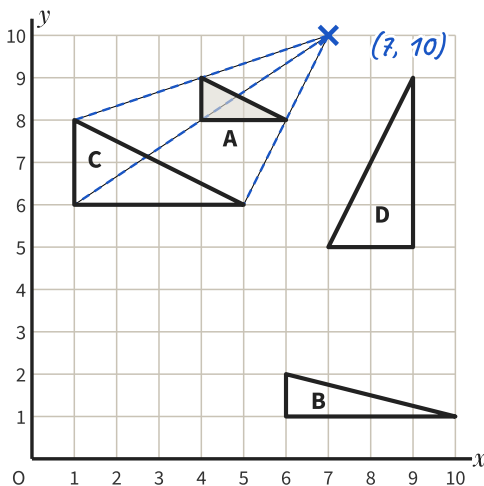
(a) Give the coordinates of the lamp.

(b) What is the scale factor?

(a) $(-4, -4)$

(b) 3

12



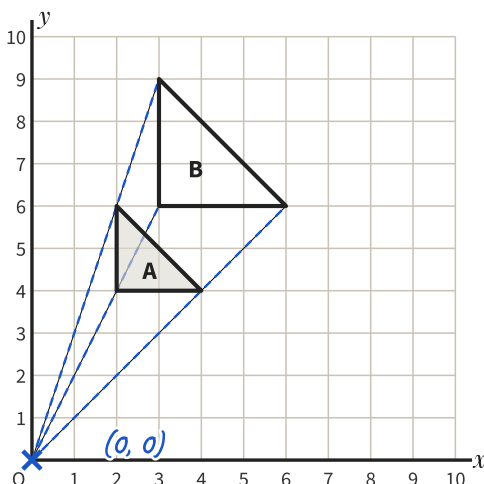
Only one of the shapes B, C and D is an enlargement of A. Which one?
Describe fully the enlargement.

Shape C

Enlargement, scale factor 2,

centre (7, 10)

13



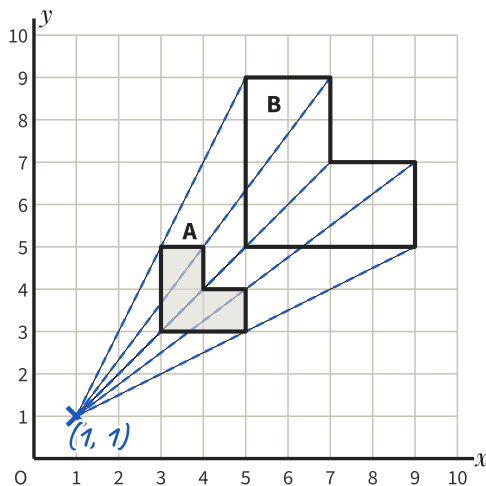
On a phone screen, the icon A is zoomed in to make B.

Describe fully the single transformation that maps A onto B.

Enlargement, scale factor $1\frac{1}{2}$,

centre (0, 0)

14



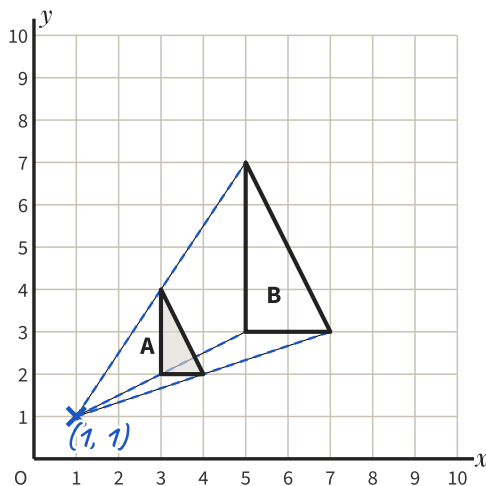
- A garden plan shows patio A and a bigger patio B.
 (a) Describe fully the single transformation that maps A onto B.
 (b) The area of B is how many times the area of A?

Enlargement, scale factor 2,

centre (1, 1)

(b) *4 times (3 squares, 12 squares)*

15



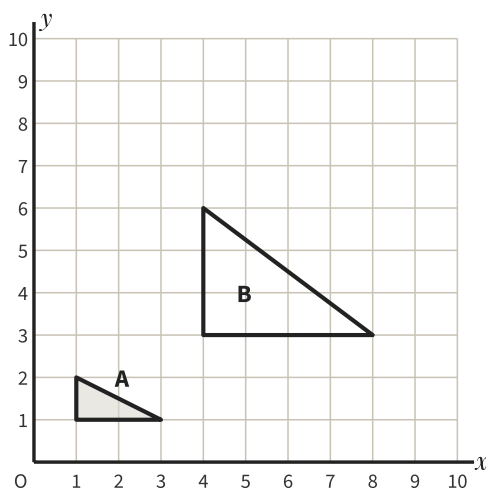
- Ben says this is an enlargement, scale factor 2, centre (0, 0).
 What is wrong? Write the correct description.

The centre is wrong: lines through

matching corners meet at (1, 1).

Enlargement, scale factor 2, centre (1, 1)

16



- Is B an enlargement of A? Explain how you know.

No. The width is multiplied by 2 but the

height by 3. An enlargement multiplies every

length by the same scale factor.