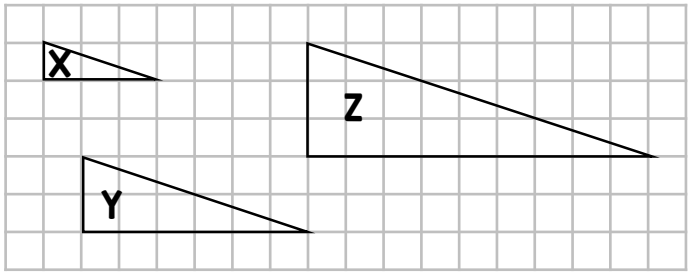
# Summer Term Maths Year 10

## Enlargement by a positive fractional scale factor

Day 4

Week 8

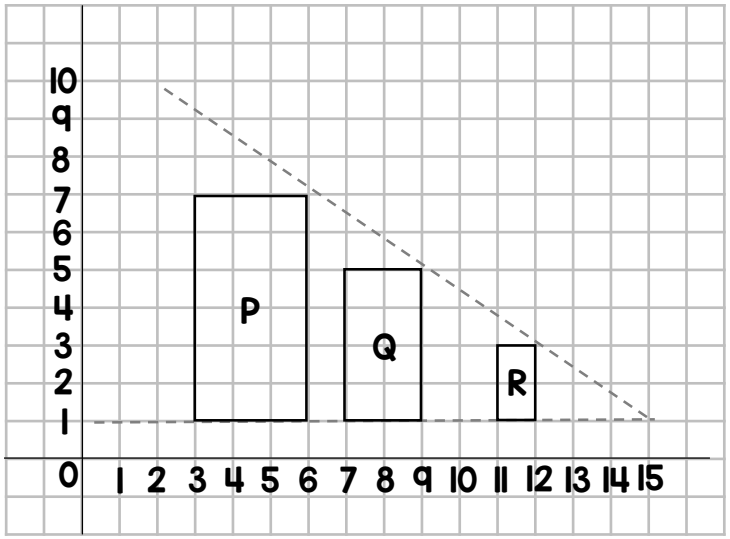
**1**




Complete this table:

| Enlargement | | |
|---|---|---|
| From | To | Scale factor |
| X | Y | 2 |
| Y | X | $\frac{1}{2}$ |
| X | Z | 3 |
| Z | X | $\frac{1}{3}$ |
| Y | Z | $\frac{3}{2}$ |
| Z | Y | $\frac{2}{3}$ |

**2**




R is an enlargement of P by scale factor $\frac{1}{3}$ from centre of enlargement (15,1).

(a) Describe the enlargement from Q to R.

(b) Describe the enlargement from Q to P.

a) R is an enlargement of Q by scale factor ½ from centre of enlargement (15,1)

b) P is an Enlargement of Q by scale factor 1.5 from centre of enlargement (15,1)

White Rose Maths

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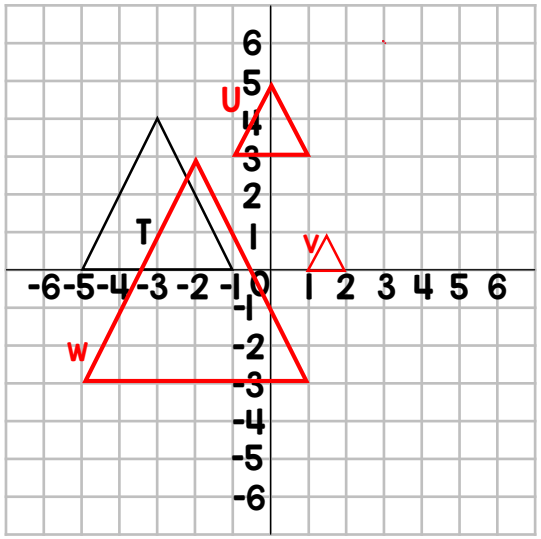
**3**

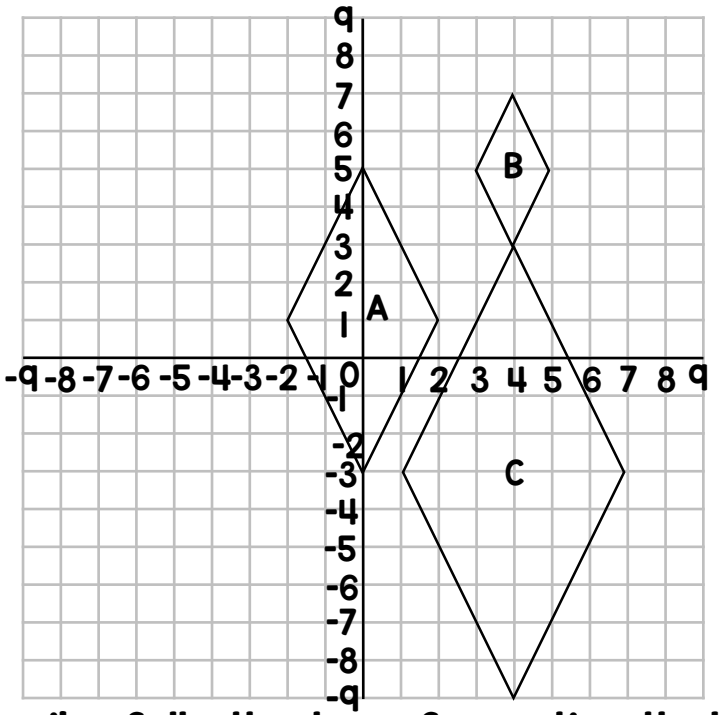



(a) Enlarge T by a scale factor $\frac{1}{2}$ from centre (3, 6). Label the new shape U.

(b) Enlarge T by a scale factor $\frac{1}{4}$ from centre (3, 0). Label the new shape V.

(c) Enlarge T by a scale factor 1.5 from centre (-5, 6). Label the new shape W.

**4**




Describe fully the transformation that maps:

(a) A onto B Enlargement by SF 0.5 from C.O.E (8,9)

(b) A onto C Enlargement by SF 1.5 from C.O.E (-8,9)

(c) C onto B Enlargement by SF 1/3 from C.O.E (4,9)

(d) C onto A Enlargement by SF 2/3 from C.O.E (-8,9)

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