

6.4

DILATION

$$\frac{\text{Dilated}}{\text{Original}} = \text{Scale factor}$$

- same shape but different sizes
- enlarge or reduce
- scale drawing

k → means scale factor

$$W(-2, 4) \quad X(1, 4) \quad Y(3, -1) \quad Z(-3, -1)$$

Scale factor of 2 times 2:

$$\begin{array}{ccccccc}
 2 \cdot -2 & 2 \cdot 4 & 2 \cdot 1 & 2 \cdot 4 & 2 \cdot 3 & 2 \cdot -1 & 2 \cdot -3 & 2 \cdot -1 \\
 W(-4, 8) & X(2, 8) & Y(6, -2) & Z(-6, -2)
 \end{array}$$

⊗ Reduction between 0 and 1
it will be a fraction