

Perimeter and Area When Dimensions are Changed



A transformation of a figure in which all of the dimensions of the figure are multiplied by the same scale factor is called a **dilation**. If the scale factor is greater than 1, the new figure is larger than the original figure. This type of dilation is called an **enlargement**. If the scale factor is less than 1, the new figure is smaller than the original figure. This type of dilation is called a **reduction**. Any dilation of a figure results in changes to the perimeter and area of the figure.

New Vocabulary

- dilation
- enlargement
- reduction
- scale factor

Effect of Dilation on Perimeter

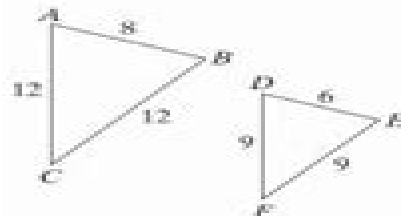
Whenever a figure is dilated by a scale factor, the perimeter of the figure changes according to the same scale factor.

★ Vocabulary TIP

When a figure is dilated, the lengths of the corresponding sides of the old figure and the new figure are in proportion. This proportion is called the **scale factor**.

EXAMPLE 1

$\triangle ABC$ is reduced by a scale factor of $\frac{3}{4}$ to produce $\triangle DEF$. How does this dilation affect the perimeter of the triangle?



$$\text{Perimeter of } \triangle ABC = 8 + 12 + 12 = 32$$

$$\text{Perimeter of } \triangle DEF = 6 + 9 + 9 = 24$$

When $\triangle ABC$ is reduced by a scale factor of $\frac{3}{4}$, the perimeter of the triangle is also reduced by the same scale factor, because: $\frac{24}{32} = \frac{3}{4}$.

✓ Quick Check 1

- A hexagon with a perimeter of 24 cm is enlarged by a factor of 1.75. What is the perimeter of the new hexagon?
- A square with a perimeter of 14 in. is reduced to a square with a perimeter of 7 in. What is the scale factor of this reduction?

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