

Ratio: Increase and Decrease

Name: _____

Date: _____

INSTRUCTIONS: Answer ALL questions in the spaces provided.

1. Increase 45g in the ratio 5 : 8.

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ g}$$

2. Decrease 96 litres in the ratio 3 : 8.

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ litres}$$

3. Due to Global Financial problems, the value of Angelina's Retirement Investment Savings decreases in the ratio 5 : 7. If her savings were worth \$50,000 a year ago, what is their current dollar value?

$$\text{Current Value} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \$ \underline{\hspace{2cm}}$$

4. A photo measures 20 cm by 8 cm. The photo is **enlarged** in the ratio 8 : 5.

(a) Calculate the measurements of the enlarged photo.

$$\text{Length} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ cm}$$

$$\text{Width} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ cm}$$



(b) Calculate the area of the original photo.

$$\text{Area} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ cm}^2$$

(c) Calculate the area of the enlarged photo.

$$\text{Area} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ cm}^2$$

(d) Write down a simplify the ratio:

Area of enlarged photo : area of original photo.

: ORIGINAL AREAS
: SIMPLIFIED AREAS