

## Part 4-6 → Percent Change

When You increase or decrease  
by a certain percent, ...

You add or subtract the  
part to or from the whole

Example: If 40 changes by 20%,  
what numbers  
could it be?

step 1: find the part

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

$$\frac{40}{100} = \frac{20}{100} \quad \text{~~40/100~~}$$

$$40 \times 20 \div 100 = 8$$

step 2: Add and subtract the part

$$40 + 8 = 48 \quad 40 - 8 = 32$$

Answer: If 40 changes by 20%, it will be

$$\underline{\underline{48}} \quad \text{or} \quad \underline{\underline{32}}$$