

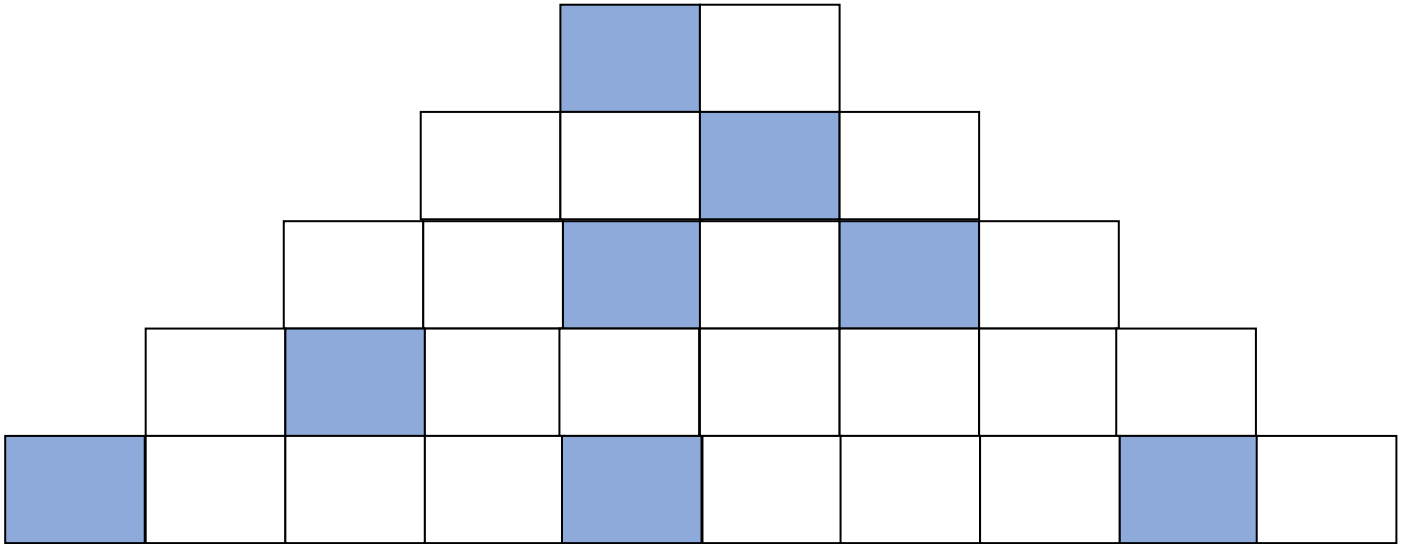
Name \_\_\_\_\_

Date \_\_\_\_\_

### Visual Diagrams as Fractions, Decimals, and Percentages Guided Lesson Explanation

Before we are ready to answer any questions, I would start this entire worksheet by determine three key values:

- a) total number of boxes      b) # of shaded boxes      c) # of unshaded boxes



To find these, just count:

total number of boxes = 30, # of shaded boxes = 8, # of unshaded boxes = 22

1) Decimal of shaded area =  $\frac{\text{\# of shaded boxes}}{\text{total boxes}} = \frac{8}{30} = 0.27$

2) Fraction that is not shaded =  $\frac{\text{\# of unshaded boxes}}{\text{total boxes}} = \frac{22}{30}$

3) Percentage of figure that is shaded =

$$\frac{\text{\# of shaded boxes}}{\text{total boxes}} \times 100 = \frac{8}{30} \times 100 = 27\%$$

