

MODELING PERCENTS

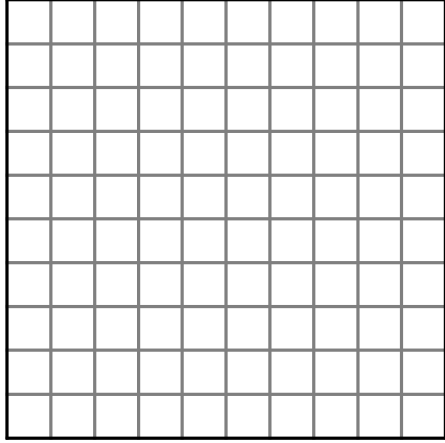
PERCENTAGES

- Percent is a part to whole ratio, where the whole is always _____.
- Each percent can be modeled on a 10x10 grid and can also be written as a _____.

Ex: $78\% = \frac{78}{100} = \text{"seventy-eight hundredths"} = 0.78$

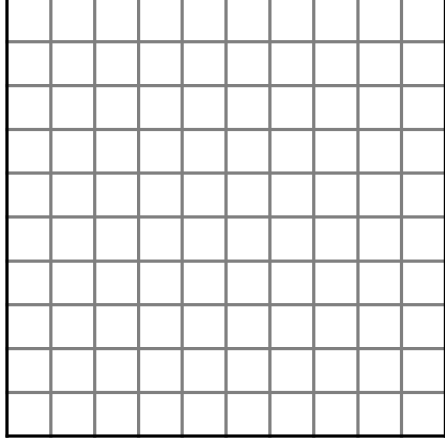
Use the hundreds squares below to model each percentage. Then, complete the different representations below.

50%



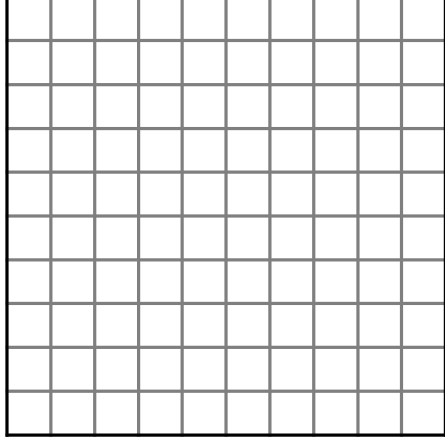
$\frac{\text{part}}{\text{whole}}$: _____

35%



$\frac{\text{part}}{\text{whole}}$: _____

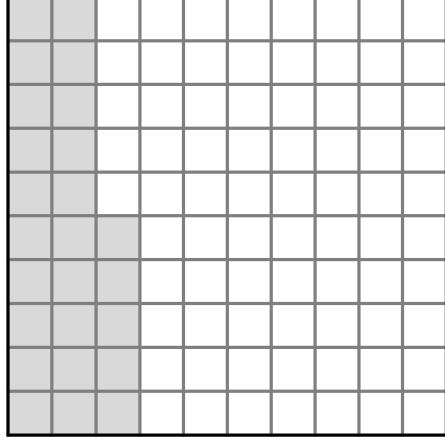
10%



$\frac{\text{part}}{\text{whole}}$: _____

1. Use the percent model at the right to answer the questions below.

- How many squares are shaded?
- What is the ratio of the shaded squares to total squares?
- How could you represent the shaded squares as a percent?
- If the shaded squares represent _____ percent, then what percent do the unshaded squares represent?



CONVERTING BETWEEN PERCENTS AND DECIMALS

- A percent can be written over 100, and then read out loud.

Ex: $\frac{45}{100} =$ “forty-five hundredths” $= 0.45$

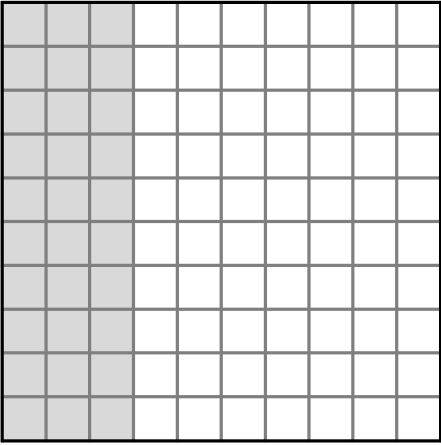
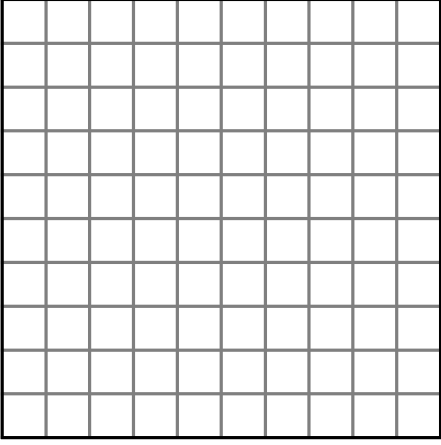
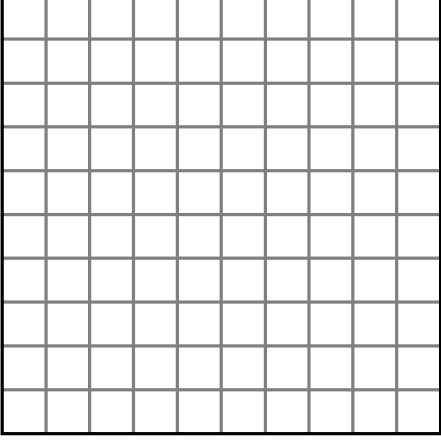
- A percent can also be divided by 100, which is the same as moving the decimal _____.

Ex: $45\% = 0.45$ $87\% = 0.87$ $150\% = 1.5$

Use your understanding of converting between percents and decimals to answer the questions below.

2. $70\% =$ _____	3. $16\% =$ _____	4. $37\% =$ _____
5. $0.28 =$ _____	6. $0.62 =$ _____	7. $0.90 =$ _____

Use the information given in each column to complete the missing representations.

		
$\frac{\text{part}}{\text{whole}}:$ _____ percent: _____ decimal: _____	$\frac{\text{part}}{\text{whole}}:$ _____ percent: 75% decimal: _____	$\frac{\text{part}}{\text{whole}}:$ $\frac{45}{100}$ percent: _____ decimal: _____

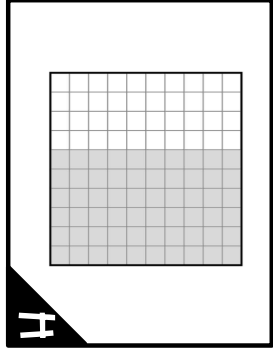
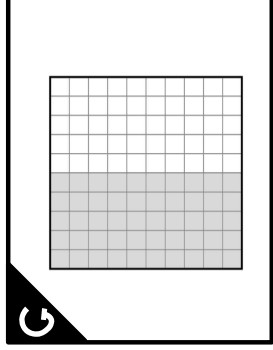
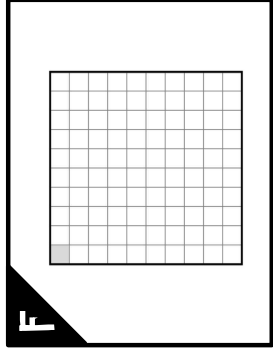
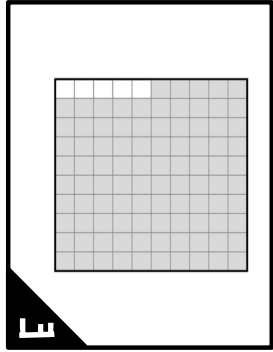
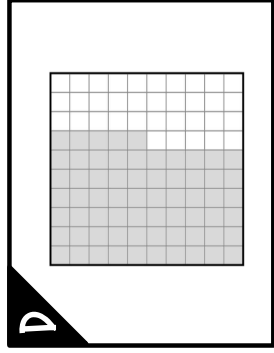
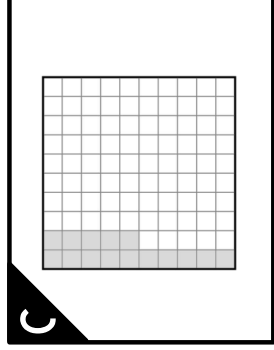
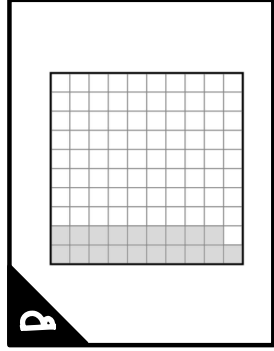
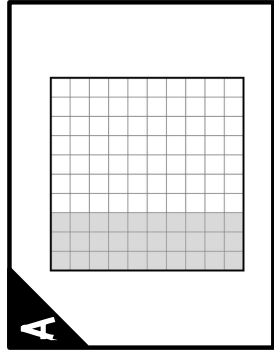
8. Todd wrote the statement below but made an error. Describe his mistake and correct his work.

$50\% = 5.0$

Summarize today's lesson:

MODELING PERCENTS

Elise is playing memory with math cards. There are two versions of each percent represented below. Record the matches at the bottom of the page.



I

$$0.15$$

J

$$\frac{65}{100}$$

K

$$0.19$$

L

$$\frac{50}{100}$$

M

$$\frac{30}{100}$$

N

$$0.60$$

O

$$0.01$$

P

$$0.95$$

A	
	%

B	
	%

C	
	%

D	
	%

E	
	%

F	
	%

G	
	%

H	
	%