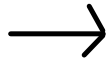
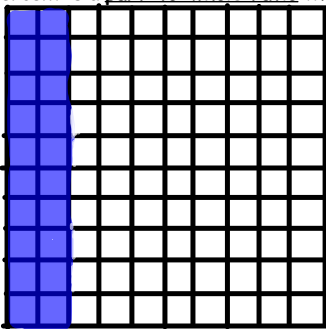


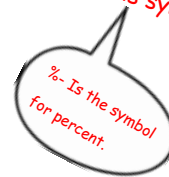
**What is percent?**

- Percent is a **part-to-whole ratio** that compares a number to 100.



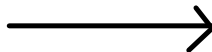
This hundred square (hundred squares) is an example of a part-to-whole ratio. The ratio of blue squares to all squares in ratio form is 20:100, while in fraction form it is  $\frac{20}{100}$ .

*What does this symbol mean %?*



- Percent means "out of 100" or "per 100". Therefore, the amount of blue squares colored in the hundred square above is 20%.

- A percent can always be written as a decimal.
- A decimal can always be written as a percent.



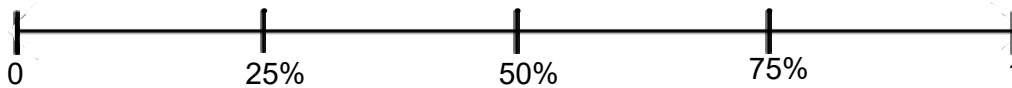
32% is the same as 0.32 (32 hundredths or  $\frac{32}{100}$ )

- There is also a relationship between percent, corresponding decimals and ratios. For example: 60% is the same as 0.60 and 60:100 ( $\frac{60}{100}$ ).

- When talking about percent, you already know a few common ratios and fractions and there percentage value. For example:  $\frac{1}{4}$  is 25%,

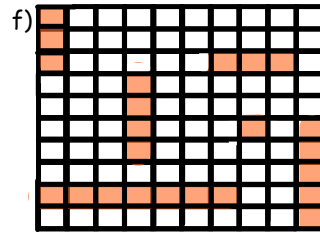
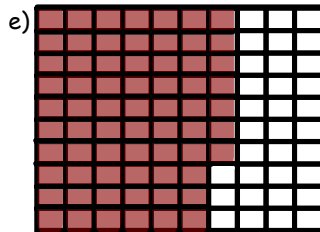
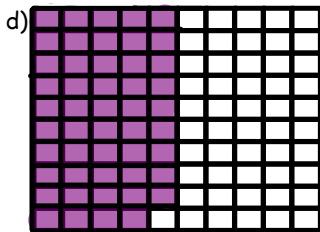
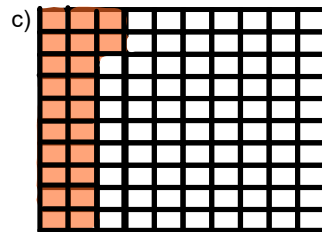
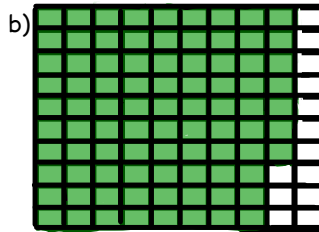
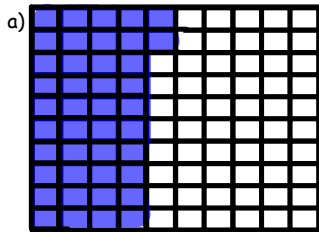
$\frac{2}{4}$  is 50%,  $\frac{3}{4}$  is 75% and  $\frac{4}{4}$  is 100%. Another way to look at it is to think of it as quarters. 1 quarter is 0.25¢, 2 quarters is 0.50¢ and so

on.



**Percent Questions:**

1. Provide the decimal and percent of the shaded part?



2a) Using the diagrams in question 1, write the decimal and percent for the unshaded part.

b) Add both the shaded part to the unshaded part for each letter in question 1. What do you notice?

3) Write the fraction that corresponds to the following percentages.

- a) 38%    b) 58%    c) 71%    d) 2%    e) 100%

4) Write the decimal that corresponds to the following percentages.

- a) 27%    b) 8%    c) 95%    d) 73%    e) 44%

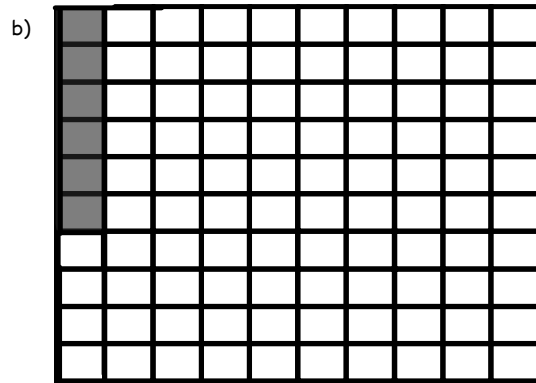
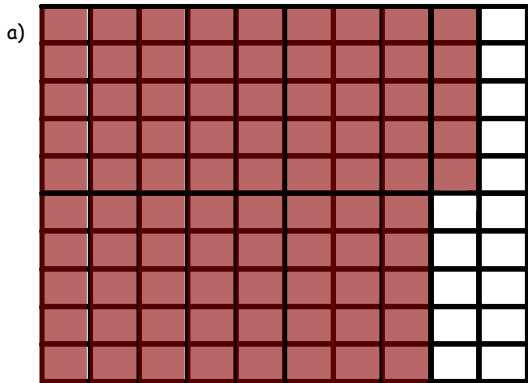
5) Write the following as a percent.

- a) 10 out of 100    b)  $\frac{41}{100}$     c)  $\frac{86}{100}$     d) 12 out of 100

5. Write the percent for each of the following.

- a) 0.04    b) 0.79    c) 0.64    d) 0.01

6. Write the decimal and percent of the unshaded part of the hundreds chart.





1. Turn each fraction into a percent and decimal.

- a)  $\frac{12}{25}$       b)  $\frac{40}{50}$       c)  $\frac{3}{20}$       d)  $\frac{92}{100}$

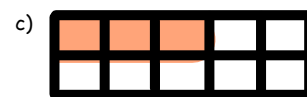
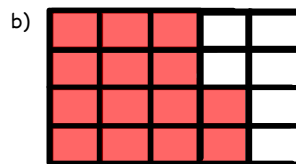
2. Find the percent and fraction for the following decimals.

- a) 0.2      b) 0.56      c) 0.07      d) 0.34

3. Find the decimal and fraction for each percent.

- a) 64%      b) 1%      c) 81%      d) 90%

4. Determine the percent of the unshaded part of the object.



5. Identify which represents the least? The greatest?

- 0.07      70%       $\frac{7}{10}$

6. Tori found 30 out 50 items on her scavenger hunt list.

Jerry found 65% of the items on his scavenger hunt list.

Who found the most items?

