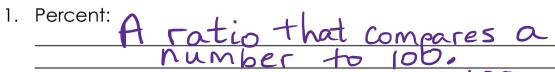
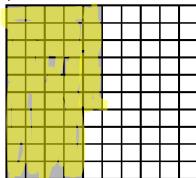
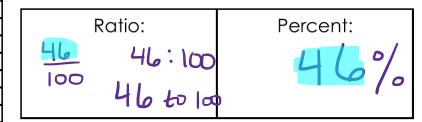
## Introduction to Percents

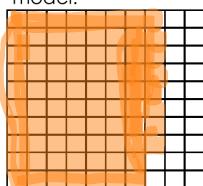


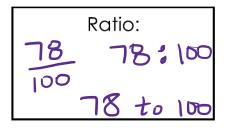
- 100. 2. It is a part-to-whole ratio where the whole is \_
- You can write the ratio 25 to 100 as 25 % 3.
- 4. Look at the figure below. It contains 100 squares. Write a ratio and percent to describe the shaded part.





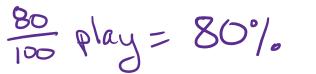
5. Use the figure below to model 78%. Write the ratio represented by the model.







- 6. You can use percents to describe <u>ratios</u> out of 100.
- 7. 80 out of 100 students play a sport. What percent of students play a sports? What percent of students do not play sports?



$$\frac{20}{100} = \frac{don't}{play} = 20\%$$

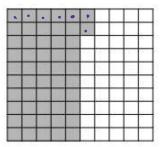
25 out of 100 of Mrs. Lopez's books are mystery books. What percent of her books are mystery books? What percent of books are not mystery books?

Name:

Date:

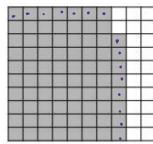
## Practice: Introduction to Percents

#1 Write a ratio and percent to describe the shaded part.

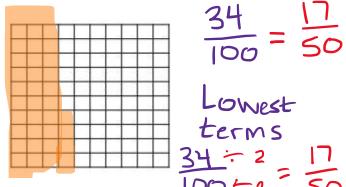


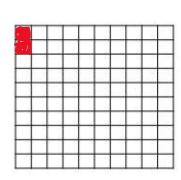
52%

#2 Write a ratio and percent to describe the shaded part.



#3 Use the figure below to model 34%. Write the ratio represented by the model.





#5 Jessica has a jar of 100 candies. 45 of the candies are chocolates and the rest are peppermints. What percent of the candies are chocolate? What percent are peppermints?

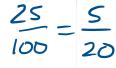
#6 Carlo is writing a book. It will have 100 pages. He has written 17 pages so far. What percent of the pages has he written? What percent of the pages does he still have to write?

$$\frac{17}{100} = 17 \%$$

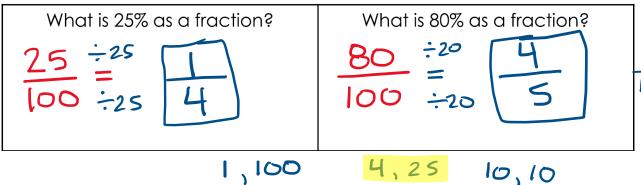
| Name: |  | Date: |  |
|-------|--|-------|--|
|       |  |       |  |

## **Percents & Fractions**

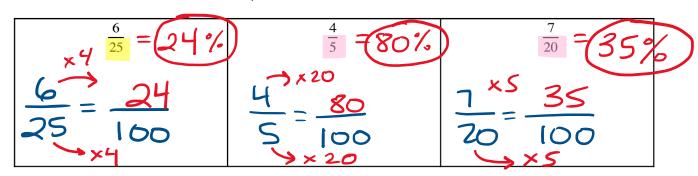
1. A percent can be written as a fraction with a denominator of



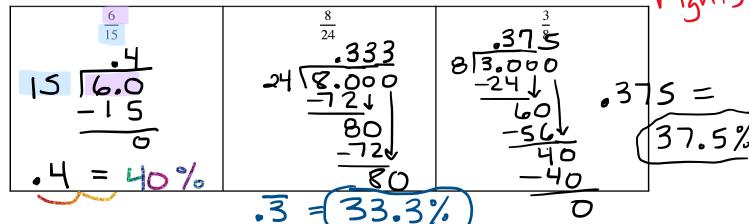
2. To write a percent as a fraction, write the percent over 100, then \_\_\_\_\_ the fraction.



- 3. The factors of 100 are: 2, 50 5, 20
- 4. When writing a fraction as a percent, if the denominator is a **factor** of 100, write an equivalent fraction.
- 5. Write each fraction as a percent:



- 7. Then multiply the decimal by 100 (move the decimal 2 places
- 8. Write each fraction as a percent. Round your <u>percent</u> to the nearest <u>tenth</u> if necessary.



## **Practice: Percents & Fractions**

#1 What is 67% as a fraction?

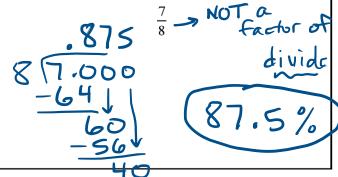
#2 What is a 75% as a fraction?

$$\frac{75}{100} = \boxed{\frac{3}{4}}$$

#3 Write the fraction below as a percent. Round your percent to the nearest tenth if necessary.

$$\frac{4}{10} = \frac{40}{100} + \frac{4}{100}$$

#4 Write the fraction below as a percent. Round your percent to the nearest tenth if necessary.



#5 Write the fraction below as a percent. Round your percent to the nearest tenth if necessary.

$$\frac{6}{50}$$
  $\rightarrow$  Factor

$$\frac{6^{\times 2}}{50} = \frac{12}{100}$$

#6 Write the fraction below as a percent. Round your percent to the nearest tenth if necessary.

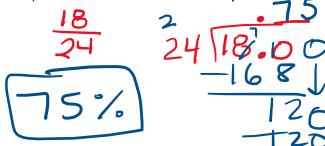
48

48

48

#7 Tamara got 22 out of 25 question correct on her last math quiz. What percent of the questions did she get correct?

#8 Amelia receives two dozen roses for her birthday. 18 of the roses are pink. What percent of the roses are pink?



$$\frac{18}{24} = \frac{3}{4} = \frac{75}{100}$$