# Fraction, Decimal, Percent Conversions:

Use the given ratio to write as a fraction, decimal, percent. Be sure to simplify the fraction  $\ensuremath{\mathfrak{G}}$ 

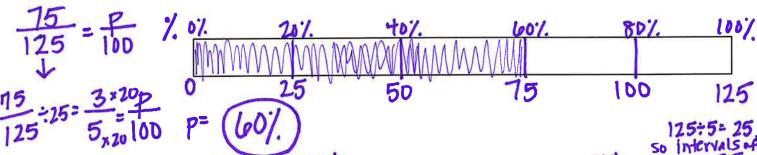
RATIOS	FRACTION (Simplify)	DECIMAL	PERCENT
3 out of 50 students play bagpipes	3 · 2 · 6 50 · 2 · 100	.06	6%
5 out of 20 dogs have white spots	5 25 4 25 4 200	.25	25%
Student Council raised \$142 out of a goal of \$100	142 110 ÷ 2 = 71 - [2] 50 = 50	11.42	1 4 2%

RATIOS	FRACTION (Simplify)	DECIMAL	PERCENT
14 out of 25 students have a cat	14 456 25 4 100	.56	56%
12 out of 16 boys like the color blue best	12-4-3 25 75	.75	75%
Mary collected \$150 of her \$120 fundraising goal	150 - 30 = 5 1 4	1.25	125%

100 = part whole

**Finding Percent** 

1. There were 125 ice cream cones. 75 were mint chocolate chip. What percent of the ice cream cones were mint chocolate chip? Create a tape diagram, too ©



2. Grace has 25 dogs total. 4 of the dogs are Pugs and the rest are Golden Retrievers.

What percentage of the dogs are Golden Retrievers?

84% are Golden Retrievers

3. On one of Mrs. Mayer's math assessments Sohpia earned 26/40 and Alex earned 7/10. Who got the higher score? You should convert these fractions into percents to compare which score is better!

$$\frac{24}{40} = \frac{1}{100}$$

$$\frac{26}{100} = \frac{13\times 5}{100} = \frac{1}{100} =$$

Alex's score is higher

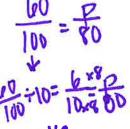
4. Jack sold 38/50 of his raffle tickets for the school dance. Patrick sold 21/25 of his raffle tickets. Who sold a higher percentage of their tickets?

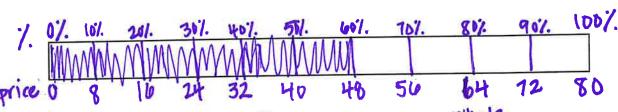
5. Joe and Bob are mowing lawns. Joe has finished 24 out of the 60 total lawns that need to be mowed. Bob has finished 90 out of his 150 lawns. Who has a higher percentage of their lawns mowed?

 $\frac{90}{150} = \frac{3^{20}}{5 \times 2000} = \frac{3^{20}}{150} = \frac{3^{20}}{5 \times 2000} = \frac{3^{20}}{5 \times 2$ 

### Finding "part"

1. Farmer Joe ordered hay bales that were 60% off. If the original price was \$80, how much did he save? Create a tape diagram, too © # 41 was saved





2. Ivy is buying a pair of boots that are 20% off. If the original price is \$115, how much does she save with the discount?

$$\frac{20}{100} = \frac{P}{115}$$

$$\frac{1}{100} = \frac{1}{5} = \frac{13P}{5} = 23$$

3. Betsy got a manicure for \$3\% off. If the manicure originally cost \$20, how much did she save with the discount?

15:5 d

8aved #3

4. Danny worked at a pet store. There were 15 cats at the beginning of the day, but 40% of the cats were sold throughout the day. How many cats were left when the pet store closed?

6 cats were sold, so 9 costs remained.

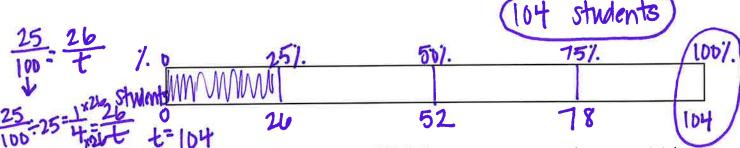
5. Calo set a goal of eating 500 hot dogs this year. If he has reached 90% of his goal, how many hot dogs does he need to eat before New Year's Eve?

Calo ate 450
hot dogs and needs to eat 50 more!

#### Finding "whole"

If 26 atudanta

1. 25% of All Star students plan to attend the Indians' game in May. If 26 students are attending the game, how many total students are on the team? Create a tape diagram ©



2. 70% of sixth graders play sports. If 175 sixth graders play sports, how many total students are in the sixth grade?

$$\frac{76}{100} = \frac{175}{S}$$

$$\frac{70}{100} \div 10 = \frac{7 \times 25}{10 \times 25} \frac{175}{S} = 250$$

250 total students in sixth grade.

3. Betsy ate 24 donut holes for breakfast this morning. If this was 15% of the donuts, what was the total number of donut holes?

160 total donuts

4. 126 of the sheep on the farm had eaten. If this number represents 42% of the sheep, how many total sheep are on the farm?

$$\frac{42}{100} = \frac{126}{5}$$

$$\frac{42}{100} = \frac{126}{5}$$

$$\frac{42}{100} = \frac{21}{50} \times \frac{126}{5}$$

$$S = 300$$
There were size to the enimal chalter to get a new kittent. There were sixty

5. Lucy was going to the animal shelter to get a new kitten! There were six kittens, which represented 30% of the animals in the shelter. How many animals total were in the shelter?

20 total animals

## Percent Word Problems- "Sale Price" problems

100-40-66

1. Mr. Carlson paid \$126 for a hp laptop. Mr. Carlson used a 40% discount. What was the original price of the hp laptop? Sayed 10% baid 60% of DY1

100 ×21 126 100 ×21 W W= 210

. The original price of the laptop was (\$210.)

2. Falyn wanted to buy a stuffed animal owl for Annalese. Falyn paid \$34 after a 15% 100-15=85 discount. What was the original price of the owl?

She saved 15%, 50 she

 $\frac{85}{100} = \frac{34}{t}$   $5 = \frac{17 \times 2}{20} = \frac{34}{t} + \frac{1}{t} = 40$ 

\$40 was the original price

3. The sale price of a unicorn is \$350 after a 75% discount. What was the original price of the unicorn? 75%. Saved, So we paid 25% of one original price.

25 x14 350 100 x14 W W= 1400

\$1,400 was the original price of the unicorn

4. Bob paid \$56 after a 30% discount for a LeBron James jersey. What was the original price of the jersey?

30%. Saved, So 10%. paid of original price.

100 = 50 100 = P 100 = 10 = 10 × 5 P P= 80 \$80 is the original price of the jersey

5. Stephanie paid \$63 after a 25% discount for a new dress to wear to her holiday party. What was the original price of the dress? 25% Saved, 50 75% paid

\$184 is the ... 1500 = t original price of the dress 75-25= 3x2/63 of the dress 75-25= 3x2/63 4 721+