$\qquad$ Date: $\qquad$
Find the Percent of a Number

You can use fractions and decimals to find the percent of a number. To find the percent of a number, write the percent as a fraction with a denominator of 100 . Then multiply the fraction by the number.

Example

1. Refer to the circle graph. Suppose there are $\mathbf{3 0 0}$ students at York Middle School. Find the number of students that have cheese as a snack.

Snacks



Method 1 Write the percent as a fraction. Method 2 Write the percent as a decimal.

$$
\begin{aligned}
& 15 \% \text { of } 300 \\
& \frac{15}{100} \times \frac{300}{1}=\frac{4500}{100}=45
\end{aligned}
$$

Got It? Do this problem to find out.
a. Find the number of students at York Middle School that have chips as a snack.

$$
\begin{aligned}
& 18 \% \text { of } 300 \\
& 0.18 \times 300
\end{aligned}
$$







Example
5. In a recent state Special Olympics meet, Franklin County sent a team of $\mathbf{7 0}$ players. Twenty percent of the team competed in soccer. How many athletes competed in soccer?

$$
\begin{array}{rlrl}
20 \%=0.20 & & \text { Write } 20 \% \text { as a decimal. } \\
20 \% \text { of } 70 & =0.2 \times 70 & & \text { Write the multiplication problem. } \\
& =14 & & \text { Multiply. }
\end{array}
$$

So, 14 team members were soccer players.

Got It? Do this problem to find out.
e. In the same meet, $15 \%$ of the team from Delaware County competed in tennis. If there were 20 members on the team how many competed in tennis?

$$
15 \%=15
$$

$\times 20$


Eufled Practice
Find the percent of each number. (Examples 1-4)

1. $32 \%$ of $60=19.2$

2. $27,5 \%$ of $4=$ $\qquad$

$$
2)^{2} \rightarrow C-c
$$

4. Troy wants to buy) a erey (af his favorite MLAteqmejergey is $30 \%$ off the original price. If he original price of the jefser is $\$ 35$, what is the



$$
\text { of } 35
$$



## Real-World Percent Trick = Use 10\%!

Percents are everywhere and very soon you'll find yourself in situations where you have to find a percent of a number to determine important information and amounts, such as discounts and percents. One trick you can use is the $10 \%$ trick! Here's how it works:

Example: Mrs. Galante wants to buy a new winter coat. The original price is $\$ 120$, and Mrs. Galante has a coupon for $40 \%$ percent off. How much money will she save with the coupon?

Step 1: Find 10\% of the number by dividing by 10.

Step 2: Multiply this new amount by the number of times 10 goes into the original percent.

Now you try! Use the 10\% Trick to find the following amounts!

1) $60 \%$ of 80
2) $20 \%$ of 22
3) $15 \%$ of 300
