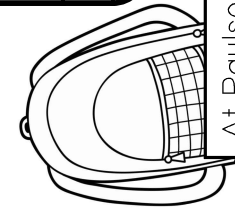


PERCENT APPLICATION: FINDING THE PART

Percents can be helpful in solving real-world problems. Consider thinking through the questions below to help you organize the information and set up the proportion.



What information
are you given?

What are you solving for?
Is that represented by the
part, the whole, or the
percent?

Does your solution
make sense in the
context of the
problem?

At Paulson Middle School, 75% of the sixth grade class is making a B or higher. If there are 24 students in the sixth grade class, then how many are making a B or higher?

- What information do we know?
- What information do we need to know?
- Are we looking for the part, the whole, or the percent?
- Sketch a tape diagram to represent the situation.
- What is the solution? Does the solution make sense in context of the problem?

100%

Set up a tape diagram for each of the word problems below. Do not solve.

1. A campus survey states that 40% of students ride the bus. If there are 300 students, how many ride the bus?

100%

2. In Janet's neighborhood, 66. $\bar{5}$ % of households have a landline phone. If there are 80 households in the neighborhood, how many have a landline phone?

100%

Use your understanding of tape diagrams and proportions to solve the percent problems below.

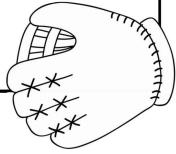
3. There are 80 local little league teams. Thirty percent of them have players under the age of 7. How many teams have players under the age of 7?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:



4. In Seattle, WA, it is said to rain 66% of the time. Since there are 365 days in a year, about how many days is it expected to rain?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:

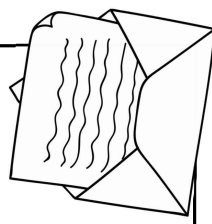
5. At the post office, 45% of packages ship as priority mail. If 160 packages are shipped today, how many will **not** go as priority mail?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:



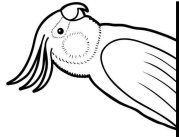
6. Stephen Curry plays for the Golden State Warriors and has a 90% free throw shooting record. If he shot 12 free throws in a game, approximately how many did he miss?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:



PERCENT APPLICATION: FINDING THE PART

Set up a proportion or percent bar to solve each of the problems below.

1. A local zoo had 750 visitors on Saturday. If 20% of the guests traveled from out of town, how many local guests visited the zoo on Saturday?

TICKET	% OF SALES
Child	15%
Adult	85%

2. On an average Sunday, 460 tickets are sold. How many children's tickets were sold?

3. The zoo has 40 dispensers to buy food to feed the animals. Thirty percent of the dispensers are for land animals. How many food dispensers are for land animals?

4. Of the 250 visitors on Friday, 54% of them stayed until the zoo closed. About how many visitors stayed until the zoo closed?

5. A guest survey showed that 325 people ordered food while at the zoo. Ninety-two percent were satisfied with their food order. How many people were dissatisfied with their order?

6. There are 20 different places to get food. Twenty percent of them are ice cream shops. How many ice cream shops are in the zoo?

7. The zoo has 400 employees. Seventy-two percent of them are part time employees. How many employees work full-time?

8. Of the 400 employees, 5% of them are managers. How many managers does the zoo employ?

