

PERCENT APPLICATION: FINDING THE PERCENT

$$\frac{15}{100} = \frac{9}{100}$$

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Sometimes we are given information and have to determine the % .

The sixth grade class held an end-of-the-year talent show. Of the 300 sixth graders, 246 decided to attend. What percent of the sixth grade class attended the talent show?

WHAT DO WE KNOW?

246 st. attended
300 total st.

WHAT DO WE NEED TO KNOW?

% of students attended

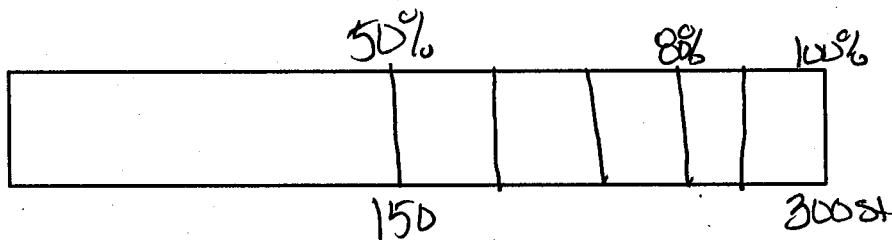
$$\frac{246}{300} = \frac{x}{100}$$

$$x = 82\%$$

ARE WE LOOKING FOR THE PART OR THE WHOLE?

% part

WHAT DOES THE STRIP DIAGRAM LOOK LIKE?



DOES MY SOLUTION ANSWER THE QUESTION?

82% of students attended

Set up a strip diagram for each of the word problems below.

1. In Mrs. Stone's class, 18 out of 22 students turned in their homework on time. What percent of the class turned their homework in on time?

2. Angelica took a spelling test and got 14 out of 15 problems correct. What percent of problems did she get correct?

Carefully read the problems below. Set up a percent bar or percent proportion to solve.

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

$$\frac{\%}{100} = \frac{\text{PART}}{\text{WHOLE}}$$

3. A farmer decides to sell 16 pounds of his small 48-pound potato crop. What percent of the crop did he sell?

$$\frac{\text{sell } 16}{\text{total } 48} = \frac{x}{100}$$

$$48x = 16 \cdot 100$$

$$\frac{48x}{48} = \frac{1600}{48}$$

$$x = 33.\bar{3}\%$$

33. $\bar{3}$ %

4. For every \$10 Glen earns, his parents require him to save \$2. What percent of his money does he get to spend?

$$\frac{\text{save } 2}{10} = \frac{x}{100}$$

$$x = 20\% \text{ saved}$$

$$100\% - 20\% = 80\% \text{ spent}$$

or

$$\frac{\text{spent } 8}{10} = \frac{x}{100}$$

$$x = 80\% \text{ spent}$$

5. Coach Thomas has a player who made 9 free throw shots out of 15 in tryouts. To make the team, a player must be able to shoot 65% of the free throws. Will this player make the team?

6. A kindergarten class has 9 girls and 11 boys. What percent of the class are girls?

7. Joey has 8 pairs of socks in his drawer. Five of them are white. What percent of colored socks does Joey have?

8. It rained seven days during the month of April. About what percent of the month did it rain?

Summarize today's lesson: