

Finding the Percent

Objectives:

- To find the percent, using the percent box, when the whole and part are known

Outcomes:

- To complete the “Finding the Percent” worksheet with at least a 90% score

Warm-Up:

The percent box takes the mystery out of finding where to put each of the numbers in a percent problem. It is an excellent tool for visual learners. It is easy to remember and easy to use for all types of percentage problems. The student does not need to do percent or fraction conversions when using the box.

New Instruction:

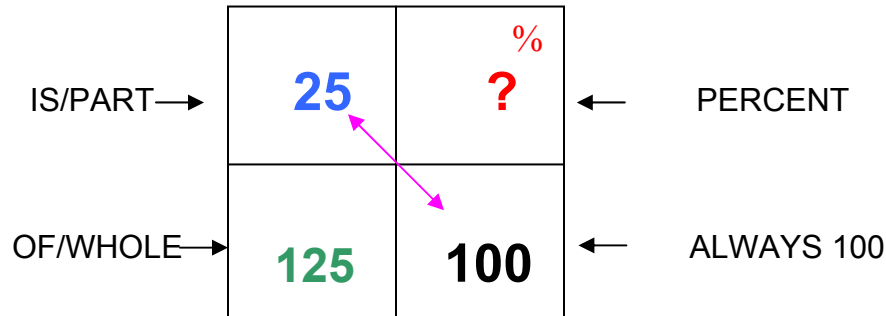
The main box is divided into four squares. The upper left square is marked “is/part”. The lower left square is marked “of/whole”. The upper right square is marked “percent”. Finally, the bottom right square is always filled in with “100”. After placing the numbers in the appropriate squares, cross-multiply the numbers in the two filled-in squares that are diagonal from each other. Divide the answer by the leftover number.

Is/Part	%
Of/Whole	100

The boxes are color coordinated for easy placement of numbers.

FINDING THE PERCENT

What percent of 125 is 25?



1. **Fill-in** the labeled squares with **whole** (125) and **part** (25).
2. **Cross-multiply** numbers in two filled-in squares.
 $25 \times 100 = 2,500$
3. **Divide** result by the **extra number**.
 $2,500 \div 125 = 20$

ANSWER: 20% of 125 is 25

Feedback and Review:

Practice what you have learned by doing the following problems using the percent box.

1. What percent of 23 is 6.9?
2. 5 is what percent of 160?
3. 150 is what percent of 150?
4. What percent of \$100 is \$12.50?
5. 1 is what percent of 50?
6. Elijah got 27 out of 30 problems right on his paper. What percentage did he get right?

7. Carolyn made a down payment of \$4000 on a car that cost \$16,000. What percent was her down payment?
8. Jim paid \$11.25 for a cd that originally cost \$15.00. What percent did Jim pay for the cd?
9. There were 500 people present at the rally last year. If 50 of those present were children, what percent of the people were children?
10. During the last election only 750 of the 1200 registered voters went to the polls. What percent of the voters voted?

Answers:

1. 30%
2. 3.125%
3. 100%
4. 12.5%
5. 2%
6. 90%
7. 25%
8. 75%
9. 10%
10. 62.5%

Transfer of Knowledge or Skills:

Real life application:

Find items that are on sale in your newspaper. Find out the percent off by using the box.

For further practice, go to <http://www.edhelper.com/math/percents8.htm> .