SOLVING PERCENT PROBLEMS

What Is Solving Percent Problems?

- A percent is a way of comparing a number with 100.

- Percents are usually written with a percent sign: 60% or 32%

- There are **3 ways to represent a percent**: as a percent 55%, as a decimal .55 or as a fraction 50/100.

- Any of the representations can be used to solve a percent problem.

- To solve a percent problem, multiply the value by the percent using one of the representations for the percent.

  For example, 65% of 94 could be solved by multiplying .65 X 94 which is ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚00 = n/94. Which ⬚⬚⬚⬚⬚

How to sol⬚⬚⬚

- Change ⬚⬚⬚
  - ⬚⬚⬚⬚ = .⬚⬚
  - 88% = .88
  - 17% = .17

- Multiply the value by the decimal:

  - 45% of 80 → .45 x 80 = 36
  - 88% of 124 → .88 x 124 = 109.12
  - 17% of 45 → .17 x 45 = 7.65

- When solving a word problem with a percent in it:
  - Read carefully to decide what value is to be broken into a part.
  - The percent will usually have the % mark next to the number.
  - The other value will be connected to an item which CAN be broken into its parts.

- **Example:** A bakery makes 900 cookies each day and 70% of those cookies are chocolate chip. If a customer wants 500 chocolate chip cookies, will the bakery have enough to sell?

    - The 900 cookies can be divided into parts.

    - 70% of the cookies are chocolate chip

    - To solve: 70% of 900 → .75 x 900 = 675

    - **Yes**, the bakery has 675 chocolate chip cookies, enough chocolate chip cookies to sell to the customer who wants 500.

Try This!

50% of 60 _____   13% of 37 _____

25% of 80 ___

A woodworker made 60 decorative shelves to sell at a fair. 30% of the shelves were made out of maple wood. How many maple shelves does he have to sell?

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