Per Hundred

RP13-V1 · storyboard · RP13 Percent, fraction, decimal. Read each picture with its sentences.

Picture 1

Write 62.5% as a decimal and as a fraction.

$$62.5\% = \frac{62.5}{100} = 0.625$$ two places to the left

$$0.625 = \frac{625}{1000} = \frac{5}{8}$$ simplify

$$\boxed{62.5\% = 0.625 = \frac{5}{8}}$$

1. Write 62.5 percent as a decimal and as a fraction.
2. Divide by 100: move the point two places to the left.
3. 0.625.
4. As a fraction, that is 625 thousandths.
5. Simplify: divide the top and the bottom by 125, and you get 5 eighths.
6. So 62.5 percent, 0.625 and 5 eighths are three names for the same number.

Picture 2

Trap 62.5% as a decimal

$$\times\ 6.25$$

$$\checkmark\ 0.625$$

7. Watch for the trap: moving the point only one place.
8. Percent is per hundred, so two places: 0.625.

Picture 3

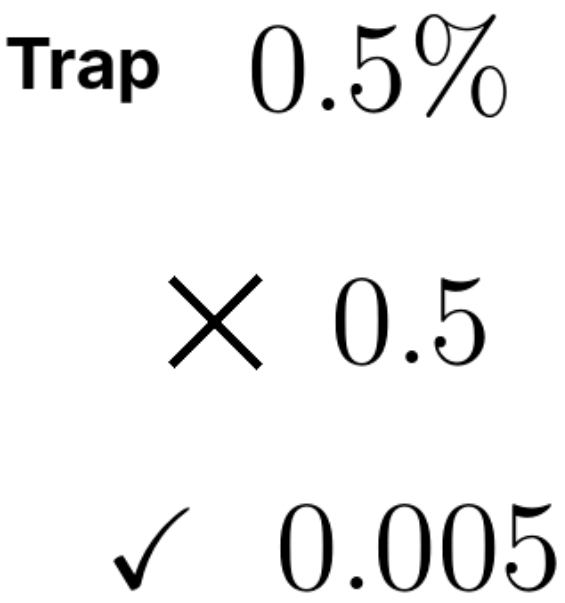
A bank pays 0.5% interest a month. How much interest is that on $\$400$?

$$0.5\% = \frac{0.5}{100} = 0.005$$ half of one percent

$$\boxed{0.005 \times \$400 = \$2}$$

9. A bank pays 0.5 percent interest a month.
10. How much interest is that on 400 dollars?
11. 0.5 percent is half of one percent.
12. Divide by 100: 0.005.
13. 0.005 times 400 dollars is 2 dollars.

Picture 4



14. Watch for the trap: reading 0.5 percent as 0.5.
15. But 0.5 is 50 percent.
16. Half a percent is 0.005, not 0.5.