

Module 8 Lesson 3

I will be able to solve percent problems!

Finding the Percent of a Number:

Set up a Proportion!

Part (IS) = %

Whole (OF) 100

Solve:

Method 1 Practice:

1. What is 28% of 25?
2. Find 35% of 60.
3. What is 125% of 92?

Lunch- Listen to the announcements

Hope you enjoyed your 2 days off!

1. Get out both of your homework sheets
2. Get the notes from the front table and tape them in
4. There are papers being passed out- leave them out and I will tell you about them

3. Problem of the day

Write $\frac{1}{8}$ as a percent and decimal

~~125%~~

125

12.5%

$$\begin{array}{r} 0.125 \\ 8 \overline{) 1000} \\ \underline{8} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

1. 27

3. 9

5. 108

7. 10

9. 57

11. 110

13. 11

15. 14

17. 59

19. 115

$$\frac{\quad}{92} = \frac{125}{100}$$
$$125 \times 92 = 11,500.$$

Practice

$$\frac{x}{25} = \frac{80}{100} \quad 80 \div 4 = 20$$

$$1200 \times .6 = 720$$

Bill ate 80% of the cookies in the jar. There were 25 cookies in the jar. How many cookies did Bill eat?

2000:100=20

$$\frac{x}{25} = \frac{80}{100}$$

$$4 \overline{) 1600}$$

20 cookies

After eating all of those cookies, Bill wants to buy a treadmill. The cost of the treadmill is \$1,200 and so far he has saved 60% of that amount. How much money did Bill save so far?

$$1200 \times .6 = 720$$

$$1200 \times \frac{60}{100} = 720$$

$$1200 \div 100 = 12$$

$$12 \times 60 = 720$$

Practice

$$\begin{array}{r} 15 \\ \times 80 \\ \hline 1200 \end{array}$$

$$\frac{1200}{1600}$$

Hannah correctly answered 75% of the 16 problems on her math test. How many questions did she answer incorrectly?

$$\frac{12}{16} = \frac{35}{100} \quad 75 \times 16 = 1200$$

$$1200 \div 100 = 12$$

$$16 - 12 = 4 \text{ questions}$$

Danelle has 80 books in her collection. 40% of the books are about goats, 15% are about astrology, and the rest are mystery.

a) How many books are about goats?

$$80 \times 40 = 3200$$

$$3200 \div 100 = 32$$

b) How many books are about astrology?

$$80 \times .15 = 12$$

$$15\% = .15$$

c) How many are mystery books?

$$40 + 15 = 55\%$$

$$100 - 55 = 45\%$$

$$\frac{45}{100} \times 80 = 36$$

$$32 + 12 = 44$$

$$80 - 44 = 36$$

Sales Tax

Government collects on certain items of services that people buy.

$$\frac{x}{720} = \frac{7}{100} \quad x = 50.4$$

$$720 + 50.4 =$$
$$\text{\$770.40}$$

Example: A laptop computer displayed at a shop costs \$720. A sales tax of 7% will be added to the price. What is the total cost of the laptop computer?

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Gratuity

A tip, or bonus, given for services that have been provided.