



100% OFF Sale – Today Only!
Percent and Discounts

Suggested time: 45 minutes

What's important in this lesson:

It is important for you to have a solid understanding of the concept of percent and remember that it means “out of 100”. It is important for you to remember that a fraction is just another way of showing that you need to divide numbers. You must remember that “of” in math language means to multiply. It is also important for you to remember that when you are working with money values, you always round to the nearest tenth; that means you need to have two (2) numbers after the decimal.

Complete these steps:

1. Read through the Lesson portion of the package independently.
2. Complete the required ‘Practice’ questions.
3. Seek assistance from teacher as needed. If you have questions about the examples or the ‘Practice’ questions.
4. Use ‘Practice’ Answer Keys to check their answers as they work through the package. If you are making errors, have your teacher review these questions with you.
5. Complete the Discounts Assignment
6. Complete the Reflective Activity

Hand-in the following to your teacher:

1. Practice Problems from the Student Handout
2. Discounts Assignment
3. Reflective Activity

A Conversation with the teacher

1. Complete the Reflective Activity and then discuss your answers with your teacher.

Questions for the teacher:



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REVIEW:

(A) % means “out of 100” (ex. 35% means $35 \div 100 = 0.35$)

(B) a fraction $\frac{3}{8}$ can be written as $3 \div 8 = 0.375$

Part A - Finding % of a Number

Examples

1. Find 24% of 360

**USE MULTIPLICATION for the word “OF”*

$$\begin{aligned} \text{So, } 24\% \times 360 &= 0.24 \times 360 \\ &= 86.4 \end{aligned}$$

(Of course, if this were \$, it would be \$86.40!)

2. Find 12% of \$568

$$\begin{aligned} 12\% \times \$568 &= 0.12 \times \$568 \\ &= \$68.16 \end{aligned}$$

3. Find $\frac{3}{8}$ of 6,472

$$\begin{aligned} \frac{3}{8} \times 6472 &= 3 \div 8 \times 6472 \\ &= 2427 \end{aligned}$$

4. Find $\frac{3}{4}$ of \$42.50

$$\begin{aligned} \frac{3}{4} \times \$42.50 &= 3 \div 4 \times \$42.50 \\ &= \$31.875 \quad (\text{What does this mean?}) \\ &= \$31.88 \quad (\text{rounded to nearest CENT}) \end{aligned}$$

Practice Problems

1. Find 35% of 2185 2. Find 58% of \$4200 3. Find $\frac{1}{3}$ of \$629.50

*** Check the answers to these questions before moving on to part B!**



Part B – Discounts

Examples

1. A new T.V. is on sale for “25% OFF”. The regular price of the T.V. is \$248.80
Calculate the DISCOUNT and the SALE PRICE.

$$\begin{aligned} \text{DISCOUNT} &= 25\% \text{ of } \$248.80 \\ &= 0.25 \times \$248.80 \\ &= \$62.20 \quad (\text{This is the amount the price goes down!}) \end{aligned}$$

$$\begin{aligned} \text{SALE PRICE} &= \text{REGULAR PRICE} - \text{DISCOUNT} \\ &= \$248.80 - \$62.20 \\ &= \$186.60 \end{aligned}$$

So, the sale price of the T.V. is \$186.60, after a discount of \$62.20

2. A Snowboard which regularly sells for \$349.95 is on sale for “1/4 OFF”.
Calculate the DISCOUNT and the SALE PRICE.

$$\begin{aligned} \text{DISCOUNT} &= 1/4 \times \$349.95 \\ &= 1 \div 4 \times \$349.95 \\ &= \$87.4875 \quad \text{What does this mean?} \\ &= \$87.49 \quad \text{Round to the nearest cent.} \end{aligned}$$

$$\begin{aligned} \text{SALE PRICE} &= \$349.95 - \$87.49 \\ &= \$262.46 \end{aligned}$$

So, the sale price of the snowboard is \$262.46, after a discount of \$87.49

Practice Problems

1. Find the DISCOUNT and SALE PRICE of a car on sale for $\frac{1}{4}$ OFF, if the regular retail price is \$26,250.40.
2. Find the DISCOUNT and SALE PRICE of a large can of Mrs. Noodles is on sale for “1/3 OFF” the regular price of \$1.35

*** Check the answers to these questions before moving on!**



Discounts Assignment

ROUND ALL ANSWERS TO THE NEAREST CENT!

1. Calculate each of the following:

a. 21% of \$780

b. 67% of \$47,000

c. $\frac{2}{3}$ of \$85.14

2. Which is the better deal – “20% OFF” or “1/4 OFF” of the same price? Explain.

3. Find the DISCOUNT and the SALE PRICE of a leather coat (normally selling for \$239.99) that is on sale for “20% OFF”

4. Find the NEW SALE PRICE if the sale price in question 3 is REDUCED by another 20%.



Reflection

Developing and Consolidating Money Sense

1. Describe how you round \$47.61 to the nearest dollar.

2. Describe two (2) situations where it makes sense to round a dollar value to the nearest ten.

Example 1 _____

Example 2 _____

3. Which is more accurate:
 estimating by rounding to the nearest 100
 or
 estimating by rounding to the nearest 10?

Explain your reasoning.

Reflective Activity: Unit 2



4. Imagine that you are a cashier. A customer's total amount owing is \$5.23. Your customer pays with a \$10 bill and requests that you include loonies and quarters when you make the change.

(a) Write out three ways you could make change including loonies and quarters.

(b) List reasons why a customer might request a particular coin or bill from a cashier when they are making change.