

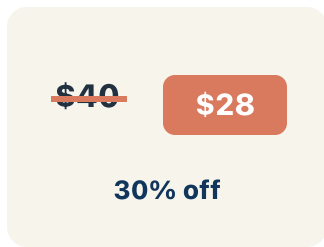
Use Percent to Solve Problems

Lesson 4-5

Name: _____ **Date:** _____ **Class:** _____

Key Vocabulary Level 2 Standard

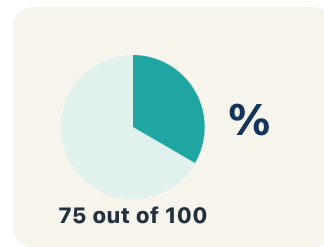
Picture first, then the word, then a plain-language meaning. Say each word out loud.



20% off \$50 → discount is \$10

Discount

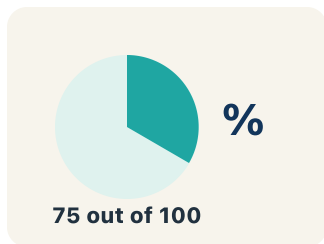
Write the definition:



A \$30 item with 10% markup sells for \$33

Markup

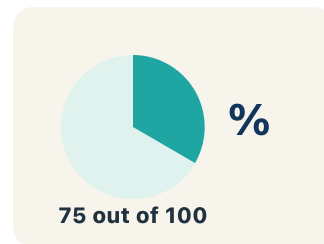
Write the definition:



6% tax on \$20 adds \$1.20

Tax

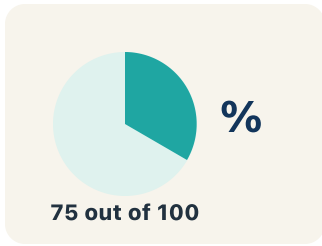
Write the definition:



15% tip on \$40 = \$6

Tip

Write the definition:



50% means 50 out of 100

Percent

Write the definition:

Guided Notes Level 2 Standard



WHAT WE'RE LEARNING TODAY

I can solve problems involving discounts, markups, tax, and tips using percents.



Fill in each blank as we go. Use the Word Bank to help you.



WORD BANK – FILL EACH BLANK WITH THE BEST WORD

Discount

Markup

Tax

Tip

Percent



Tap any word to see what it means and a picture.

1 An amount taken off the original price is a .

2 An amount added to a store's cost to set a higher selling price is a

.

3 An extra percent added to a purchase that goes to the government is

.

4 Extra money added for good service, often a percent of the bill, is a

.

5 A number out of 100 is a .

Watch & Try – Worked Examples

See the notes in action: watch one worked all the way through, then try the next with the same steps.

 **I do – watch**


Follow each step as your teacher solves it.

Problem: A prize costs 120 tickets and is 25% off. What is the sale price?

- A. 90 tickets
- B. 95 tickets
- C. 100 tickets
- D. 30 tickets

Step 1 25% of 120 = $0.25 \times 120 = 30$.

Step 2 Sale price: $120 - 30 = 90$ tickets.


 **Answer:** A. 90 tickets

 **Try – put the steps in order**

Drag the cards (or use the ▲ ▼ buttons) to put the solution steps in the right order, then press **Check**.

Sale price: $120 - 30 = 90$ tickets.

25% of 120 = $0.25 \times 120 = 30$.

 **We do – together**

Solve this one with your class using the same steps.


Problem: A meal costs \$20. You leave a 15% tip. How much is the tip?

- A. \$3.00
- B. \$1.50
- C. \$5.00
- D. \$0.15

Step 1 _____

Step 2 _____

Answer: _____

 **You do — your turn**

Now try one on your own. Show every step.

Problem: A shirt costs \$40 and the sales tax is 5%. What is the total cost including tax?

- A. \$42.00
- B. \$45.00
- C. \$40.05
- D. \$38.00

Show your work:

Try It

Solve on your own. Check the answer key when you are done.

1. Store 2 — Tech Stop: A \$25 phone case has 8% sales tax added. What is the total cost?

- A. \$27
- B. \$33
- C. \$25.08
- D. \$23

Show your work:

2. Store 3 — Food Court: Your lunch bill is \$40. You leave a 15% tip. How much is the tip?

- A. \$6
- B. \$4
- C. \$15
- D. \$46

Show your work:

Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

A store has a 20% off sale, then takes an additional 10% off the sale price. Is this the same as 30% off the original? Use \$100 as the original price. Show your work for both scenarios and explain the difference.

Sentence starter: Taking 20% off then 10% off gives a final price of \$____, but 30% off the original gives \$____. The difference is \$____ because ____.

Show your work:

Reflect — Exit Ticket

A jacket costs \$80 and is 35% off. Sales tax is 5%. What is the final price?

- A. \$54.60
- B. \$52.00
- C. \$56.00
- D. \$49.40

Your answer:
