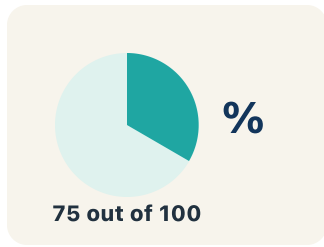


Key Vocabulary Level 2 Standard

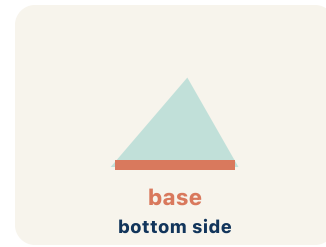
Picture first, then the word, then a plain-language meaning. Say each word out loud.



30% means 30 out of 100

Percent

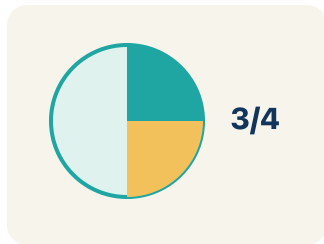
Write the definition:



In '25% of 80,' the base is 80

Base

Write the definition:



25% of 80 = 20; the part is 20

Part

Write the definition:

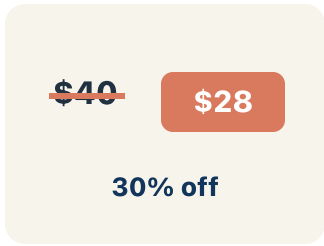
$$x + 2 = 7$$

balanced with =

part = percent \times base

Equation

Write the definition:



\$40 shirt at 25% off: discount = \$10

Discount

Write the definition:

Guided Notes Level 2 Standard



WHAT WE'RE LEARNING TODAY

I can find the percent of a number using an equation or a model.



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



WORD BANK – FILL EACH BLANK WITH THE BEST WORD

Percent

Base

Part

Equation

Discount



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

1 A number out of 100 is a .

2 In a percent problem, the whole amount you take the percent of is the

.

3 The piece of the whole that the percent represents is the

.

4 A math sentence with an equal sign, like $\text{part} = \text{percent} \times \text{base}$, is an

.

5 An amount subtracted from a price 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: What is 20% of 150?

- A. 30
- B. 20
- C. 35
- D. 75

Step 1 $20\% = 0.20.$

Step 2 Multiply: $0.20 \times 150 = 30.$


 **Answer:** A. 30

 **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**.

Multiply: $0.20 \times 150 = 30.$

$20\% = 0.20.$

 **We do – together**

Solve this one with your class using the same steps.

Problem: What is 50% of 84?

- A. 42
- B. 50
- C. 34
- D. 168

Step 1 _____

Step 2 _____

Answer: _____

 **You do — your turn**

Now try one on your own. Show every step.

Problem: What is 10% of 320?

- A. 32
- B. 3.2
- C. 320
- D. 64

Show your work:

Try It

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

1. Your bowling score was 60 points. The bonus round adds 15% more points. How many bonus points is that?

- A. 9
- B. 15
- C. 45
- D. 75

Show your work:

2. A snack at the arcade costs \$40. The sales tax is 5%. How many dollars is the tax?

- A. \$2
- B. \$5
- C. \$8
- D. \$20

Show your work:

Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

A class has 32 students. 25% are in the math club, 50% are in the reading club, and 12.5% are in both. How many students are in each group? Can the total of all three groups be more than 32? Explain why or why not.

Sentence starter: There are ___ in math club, ___ in reading club, and ___ in both. The total ___ be more than 32 because ___.

Show your work:

Reflect — Exit Ticket

What is 45% of 360?

- A. 162
- B. 145
- C. 180
- D. 126

Your answer:
