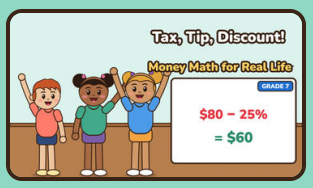
HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 7 · LESSON 3

Tax, Tip and Discount



VIRGINIA SOL (2023)
7.CE.2, 8.CE.1

VIDEO LENGTH
4:40 · Common Core edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-7#G7-03

PRACTICE ONLINE
learn.hakillokids.org · videos stop for each question, scored automatically

7.CE.2 The student will solve problems, including those in context, involving proportional relationships.

8.CE.1 The student will estimate and apply proportional reasoning and computational procedures to solve contextual problems.

Materials: Restaurant menus and store ads, calculators (optional).

Students will

- Find a percent of an amount.
- Add tax and tips to a price.
- Subtract a discount from a price.
- Use 10% as a mental-math anchor.

Key words

sales tax	a percent added to a price
tip	a percent added for service
discount	a percent taken off a price
sale price	the price after a discount

Before the video 2 minutes

Show a $40 item with a 5% tax tag. Ask: “Will you pay more or less than $40? About how much?”

What happens in the video

0:00	Welcome and today's goal: tax, tip and discount
0:19	5% tax on $40: $2, so $42
0:39	20% tip on $30: $6, so $36
0:56	25% off $80: $20 off, so $60
1:12	Spot the mistake: a discount means subtract
1:37	Your turn! Students answer during each pause (see below)
4:20	Recap and goodbye

Spot the mistake at 1:12

> **Sam:** A fifty dollar game, ten percent off. Ten percent of fifty is five. So it costs fifty-five!
> **Ivy:** Hmm... does a discount make the price go up?
> **Mia:** No! A discount means subtract. Fifty minus five is forty-five dollars.
> **Sam:** Oops! Discount means less. Forty-five!

- Ask: “Should a sale make the price higher or lower?” (Lower.)
- Find 10% of $50 = $5 and subtract it.
- Compare $45 with the original $50.

Your-turn pauses students answer out loud, then the characters give the answer

TIME	QUESTION	ANSWER IN THE VIDEO
1:38	A ten percent tip on a twenty dollar bill. How much is the tip?	Two dollars! Ten percent of twenty.
1:54	A sixty dollar jacket is fifty percent off. What is the sale price?	Thirty dollars! Half off.
2:10	Six percent tax on fifty dollars. How much is the tax?	Three dollars!
2:25	A twenty dollar shirt is twenty-five percent off. What is the sale price?	Fifteen dollars! Five dollars off.
2:42	A fifteen percent tip on forty dollars. How much is the tip?	Six dollars! Ten percent is four, five percent is two.
3:00	A one hundred dollar bike, plus eight percent tax. What is the total?	One hundred and eight dollars!
3:16	Thirty percent off a ninety dollar game. What is the sale price?	Sixty-three dollars! Twenty-seven dollars off.
3:34	A twenty percent tip on a twenty-five dollar bill. How much is the tip?	Five dollars!
3:49	Ten percent tax on a twelve dollar book. What is the total?	Thirteen dollars and twenty cents!
4:05	Forty percent off fifty dollars. What is the sale price?	Thirty dollars! Twenty dollars off.

Tip: pause the video a little longer on any question your class finds hard, and ask a student to explain how they know.

After the video: talk about it

1. Which ones are added, and which are subtracted?
2. How can you find 15% using 10% and 5%?
3. Is 20% off and then 10% off the same as 30% off? Try it.

Go further

Shopping budget: students plan a $100 shopping trip with real ads, including discounts and 6% tax, and show that they stay under budget.

Answer key for the practice page

1. $1.50
2. $69
3. $36
4. $90
5. $31.50
6. $58.80 ($80 - $24 = $56; $56 + $2.80 = $58.80)

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HAKILLO KIDS · GRADE 7 · LESSON 3 · PRACTICE

Tax, Tip and Discount

Name: _____ **Date:** _____

1. **6% tax on $25. How much is the tax?**

   Answer: _____

2. **A $60 dinner with a 15% tip. What is the total?**

   Answer: _____

3. **A $45 game is 20% off. What is the sale price?**

   Answer: _____

4. **A $120 bike is 25% off. What is the sale price?**

   Answer: _____

5. **A $30 shirt plus 5% tax. What is the total?**

   Answer: _____

6. **A $80 jacket is 30% off, then 5% tax is added. What is the final cost? Show each step.**

   Answer: _____

Watch the lesson free: hakillokids.org/math/grade-7#G7-03
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**