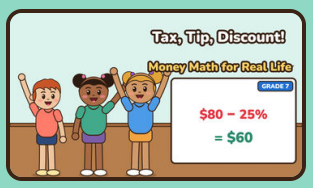
HAKILLO KIDS · TEACHER GUIDE · COMMON CORE EDITION · GRADE 7 · LESSON 3

Tax, Tip and Discount



COMMON CORE
7.RP.A.3

VIDEO LENGTH
4:40 · Virginia SOL 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.RP.A.3 Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

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**