

Grade 7 · Percent Problems: Tax, Tips, Markups and Discounts · Test

Common Core 7.RP.A.3 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

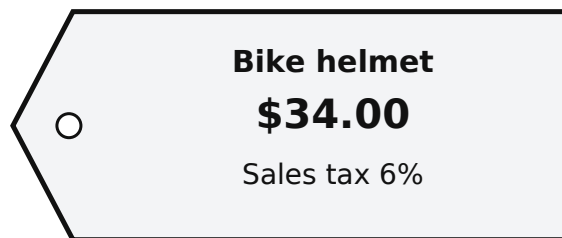
This test covers multistep percent problems: sales tax, tips, markups, discounts, commission and simple interest, standard 7.RP.A.3. It has 8 questions worth 20 points in total. Show all work, round money to the nearest cent, and label answers with dollars. Allow about 45 minutes.

Test information

- **Grade:** Grade 7
- **Chapter:** Percent Problems: Tax, Tips, Markups and Discounts
- **Common Core:** 7.RP.A.3
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 3 pts; Question 4: 3 pts; Question 5: 2 pts; Question 6: 3 pts; Question 7: 3 pts; Question 8: 2 pts)

Question 1: Sales tax (2 points)

A helmet costs \$34. The sales tax rate is 6%.



Price tag for a helmet.

- Find the amount of sales tax. (1 point)
- Find the total cost. (1 point)

Question 2: Restaurant tip (2 points)

Jamal pays a dinner bill of \$48 and leaves an 18% tip.

- Find the amount of the tip. (1 point)
- Find the total Jamal pays. (1 point)

Question 3: Sweater discount (3 points)

A sweater regularly costs \$72 and is 35% off.

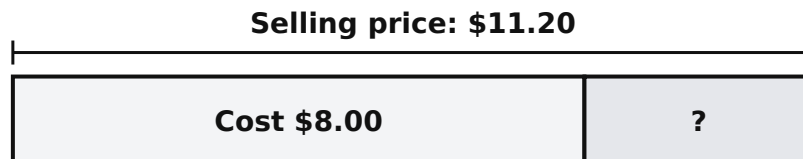


A bar model of the sweater price.

- Find the amount of the discount. (1 point)
- Find the sale price. (1 point)
- What percent of the regular price does the customer pay? (1 point)

Question 4: Bookstore markup (3 points)

A bookstore pays \$8.00 for a notebook and sells it for \$11.20.



A bar model of the notebook price.

- Find the markup in dollars. (1 point)
- Find the markup as a percent of the cost. (1 point)
- The store uses the same percent markup on a book that costs \$15.00. Find the selling price. (1 point)

Question 5: Commission (2 points)

Aisha earns a 4.5% commission on her sales at an electronics store.

- Find her commission on \$6,400 of sales. (1 point)
- How much must she sell to earn \$450 in commission? (1 point)

Question 6: Simple interest (3 points)

Noah deposits \$2,500 in an account that earns 3.2% simple interest per year.

- a. Find the interest earned in 5 years. (1 point)
- b. Find the balance after 5 years. (1 point)
- c. After how many years will the interest earned be \$240? (1 point)

Question 7: Jeans on sale (3 points)

Maya buys jeans that cost \$55. They are 25% off, and then a 7% sales tax is charged on the sale price. Round money to the nearest cent.

Clothing Store	
Jeans	\$55.00
Discount	25% off
Sales tax	7%

Receipt information for the jeans.

- a. Find the sale price. (1 point)
- b. Find the sales tax. (1 point)
- c. Find the total cost. (1 point)

Question 8: Lamp discount (2 points)

After a 20% discount, a lamp costs \$28.

- a. Find the original price. (1 point)
- b. Find the amount of the discount in dollars. (1 point)