

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

Common Core 7.RP.A.3 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This 45-minute test checks multistep percent problems: sales tax, tips, discounts, markups, commission, simple interest, percent change, and percent error (Common Core 7.RP.A.3). It has 9 questions worth 20 points in all. Show your work, because most questions give partial credit for correct steps.

About this test

- Grade: Grade 7
- Chapter: Percent Problems: Tax, Tips, Discounts and Markups
- Standards: 7.RP.A.3
- Time: 45 minutes
- Total: 20 points

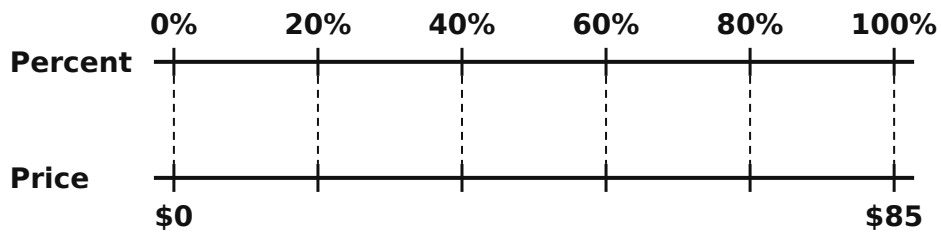
Question 1 - Tip and total [2 pts]

Bill	\$30
Tip 20%	\$6

A restaurant bill and tip.

Noah's dinner bill is \$30. He leaves a 20% tip. Find the tip and the total.

Question 2 - Discount [2 pts]



Original price of a pair of jeans.

Jeans cost \$85. They are on sale for 20% off. Find the sale price.

Question 3 - Percent change [2 pts]

Last year a team had 40 members. This year it has 46 members. Find the percent increase.

Question 4 - Original price [2 pts]

A game console is on sale for \$270, which is 90% of its regular price. Find the regular price.

Question 5 - Simple interest [2 pts]

Find the simple interest earned on \$1,500 at 4% per year for 3 years. Then find the total balance.

Question 6 - Markup then discount [2 pts]

A store buys a lamp for \$40 and marks it up 50%. A week later the lamp is sold at 10% off the marked price. Find the selling price.

Question 7 - Commission [2 pts]

Maya earns a salary of \$300 a week plus 5% of her sales. Find her pay in a week with \$2,000 in sales, and the sales needed to earn \$450.

Question 8 - Two-step purchase [3 pts]



A price changes twice.

- Find the price after the discount. (1 point)
- Find the total after tax. (1 point)

- c. Find the total percent saved compared with paying the original price plus tax. (1 point)

Question 9 - Measurement error [3 pts]

Aisha measures a trail as 5 miles. The actual length is 5.4 miles. (a) Find the percent error of her measurement to the nearest tenth of a percent. (b) A second hiker measures 5.6 miles. Find that percent error to the nearest tenth of a percent. (c) Tell which measurement is closer to the actual length, using the percent errors.