

Percent Applications: math test, Grade 7 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Quick calculations

/ 4 pts

A calculator is allowed.

- a) Find 15% of 360.
- b) Find 6% of 45.
- c) Write 0.035 as a percent.
- d) Write $\frac{5}{8}$ as a percent.

2 Percent change

/ 3 pts

- a) A stream's depth grows from 64 centimeters to 80 centimeters. Find the percent increase.
- b) A bike's price falls from \$90 to \$72. Find the percent decrease.

3 Discount and markup

/ 4 pts

- a) A backpack costs \$75 and is 40% off. Find the sale price.
- b) A store buys a lamp for \$28 and uses a 75% markup. Find the selling price.

4 Tax and tip

/ 3 pts

A meal costs \$64 before tax. The sales tax is 8.5% and the diner leaves a 20% tip on the pre-tax price. Find the tax, the tip, and the total paid.

5 Simple interest

/ 3 pts

You deposit \$2,400 at 3.5% simple interest per year for 4 years. Find the interest and the final balance.

6 Commission and percent error

/ 3 pts

- a) A car salesperson earns a 2.5% commission on \$18,000 of sales. Find the commission.
- b) A 250-milliliter beaker is measured as 240 milliliters. Find the percent error.



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