

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

22 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Percent of a number



Find 25% of 180 students.

2 Percents and decimals



- a) Write 7% as a decimal.
- b) Write 0.4 as a percent.
- c) Write $\frac{3}{8}$ as a percent.
- d) Find 12% of 50.

3 Up 10%, down 10%



A 60-pound bag of sand is increased by 10% in one case and decreased by 10% in another. Find the two new weights.

4 Sneaker sale



Sneakers cost \$80 and are 25% off. Find the discount and the sale price.

5 Book with tax



A book costs \$25 and the sales tax is 8%. What is the total?

6 Tipping at dinner



A dinner bill is \$40. Find a 15% tip and a 20% tip.

7 A small savings account



You deposit \$500 at 3% simple interest for 2 years. Find the interest and the final balance.

8 Find the percent increase



A town library had 40 computers and now has 52. What is the percent increase?

9 Find the percent decrease



A game console costs \$250 and goes on sale for \$200. What is the percent decrease?

10 Store markup



A store buys a backpack for \$36 and uses a 45% markup. Find the markup and the selling price.

11 Tax on a purchase



A pair of boots costs \$120 and the sales tax rate is 6.5%. Find the tax and the total cost.

12 Salesperson pay



A salesperson earns a \$400 weekly base pay plus an 8% commission. Last week she sold \$9,500 worth of goods. How much did she earn?

13 Measuring a ruler

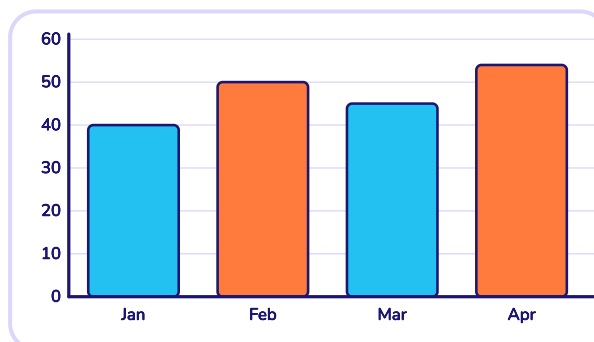


A stick is exactly 10 centimeters long. A student measures it as 9.6 centimeters. Find the percent error.

14 Monthly sales chart



The bar chart shows the monthly sales of a bike shop, in thousands of dollars.



Find the percent change from January to February, from February to March, and from March to April. Say whether each is an increase or a decrease.

15 Find the original price



After a 30% discount, a jacket costs \$42. What was the original price?

16 Up 20%, then down 20%

★★★

A price of \$50 goes up 20%, and then the new price goes down 20%. Is the final price \$50? Find the net percent change.

17 How long was the deposit?

★★★

A deposit of \$2,000 earns \$360 of simple interest at a rate of 4.5% per year. For how many years was the money invested?

18 Find the interest rate

★★★

You invest \$1,200 for 3 years and earn \$216 of simple interest. What is the annual rate?

19 Restaurant total

★★★

A meal costs \$55 before tax. The sales tax is 8% and the diner tips 18% of the pre-tax price. Find the total amount paid.

20 Two-tier commission

★★★

An agent earns 5% on the first \$4,000 of sales and 8% on every dollar of sales above \$4,000. How much does she earn on \$7,500 of sales?

21 Which scale is better?

★★★

A bag of flour weighs exactly 160 ounces. Scale A reads 148 ounces and scale B reads 157 ounces. Find each percent error and decide which scale is more accurate.

22

Card fee

An online store pays a fee of 2.9% plus \$0.30 on each card payment. A customer pays \$50. How much does the store keep?

**Test yourself: quick challenge for Grade 7**[Change level](#)

Level : **Grade 7**

6 random questions, instant feedback.

**Start the challenge****Speed drill for Grade 7: how many in 60 seconds?****Keep exploring with Zyro**

 Practice solutions

Percent Applications: practice solutions, Grade 7

 Math lessons

Percent Applications: math lesson, Grade 7

 Math quizzes

Percent Applications: math quiz, Grade 7

 Practice solutions

Adding and Subtracting Integers: practice solutions, Grade 7

 Practice solutions

Multiplying and Dividing Rational Numbers: practice solutions, Grade 7

 Math lessons

Adding and Subtracting Integers: math lesson, Grade 7

Zyro takes you to our partner sites

Blast off to other planets of knowledge and their apps.

Lift off