

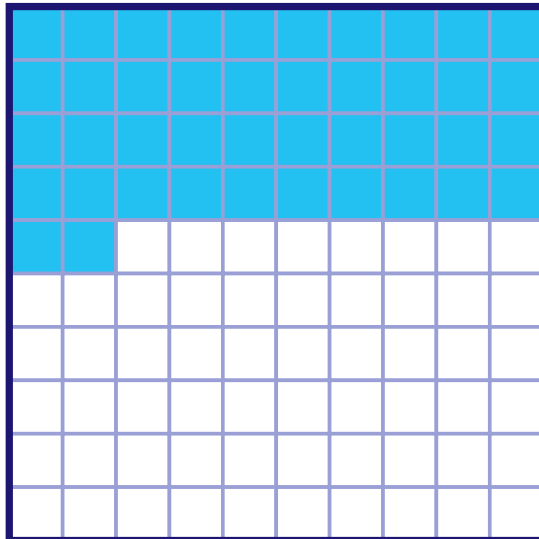
Percents: math practice, Grade 6 – download the PDF

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

1 Reading a hundred grid



The grid shows part of a hundred grid colored.



42 out of 100

(a) What percent of the grid is colored? (b) Write this percent as a fraction with denominator 100 and as a decimal. (c) What percent is not colored?

2 Percent to fraction and decimal



Write each percent as a fraction with denominator 100 and as a decimal: (a) 9% (b) 50% (c) 75% (d) 120%.

3 Easy fractions



Write each fraction as a percent: (a) $\frac{1}{2}$ (b) $\frac{1}{4}$ (c) $\frac{3}{10}$ (d) $\frac{4}{5}$.

4 Free throws



(a) A basketball player made 18 of 20 free throws. What percent did she make? (b) Another player made 12 of 25. What percent is that?

5 Ten percent shortcut



Find 10% of each number: (a) 70 (b) 120 (c) 45 (d) 8. Then use your answer to (a) to find 20% of 70.

6 True or false?



Say whether each statement is true or false and justify. (a) $0.3 = 3\%$ (b) $\frac{1}{4} = 25\%$ (c) 150% is more than one whole (d) $5\% = 0.5$.

7 Order the numbers



Write these from least to greatest: 0.4, 35%, $\frac{3}{5}$, $\frac{1}{2}$.

8 Percent of a number



Calculate: (a) 25% of 84 (b) 60% of 55 (c) 5% of 120 (d) 35% of 200.

9 A day on the trail



A hiking trail is 12 miles (about 19 km) long. Tomás has hiked 75% of it. How many miles has he hiked? How many miles are left?

10 Trail mix



A bag of trail mix has a mass of 250 g (about 9 oz). Raisins make up 30% of the mass. Find the mass of the raisins and the mass of everything else.

11 Harder fractions

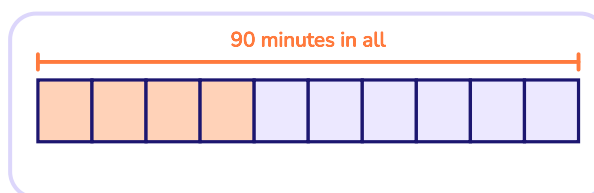


Write each fraction as a percent: (a) $\frac{9}{25}$ (b) $\frac{3}{8}$ (c) $\frac{7}{40}$.

12 Minutes on a tape diagram



The tape diagram shows a 90-minute movie cut into 10 equal parts. Four parts are shaded.



(a) What percent of the movie is shaded? (b) How many minutes are shaded? (c) How many minutes does each part represent?

13 Sales tax

A pair of headphones costs \$50 before tax. The sales tax rate is 8%. What is the tax? What is the total price?

14 Jacket on sale

A jacket costs \$70. It is on sale for 20% off. Find the discount and the sale price.

15 Who is right?

Mia says: “45% of 60 is greater than 60% of 45.” Is she right? Explain.

16 Finding the whole

Find the whole number in each case: (a) 9 is 25% of a number. (b) 21 is 60% of a number. (c) 15 is 20% of a number.

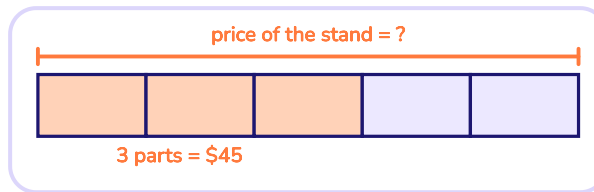
17 The school band

There are 72 students in the band. They make up 30% of all the students in a middle school. How many students are in the school?

18 Saving for a stand

★★★

Lena has saved \$45, which is 60% of the price of a bike stand. The tape diagram shows 5 equal parts, 3 of them shaded.



(a) What percent does each part represent? (b) How much money does each part hold? (c) What is the price of the stand?

19 The original price

★★★

After a 25% discount, a shirt costs \$27. What was the original price? How much was the discount?

20 Over 100 percent

★★★

(a) A seedling is 8 cm tall. Two weeks later it is 150% of that height. How tall is it? (b) A video game cost \$250 last year and costs 120% of that now. What is the new price? (c) What is 125% of 40?

21 Who did better?

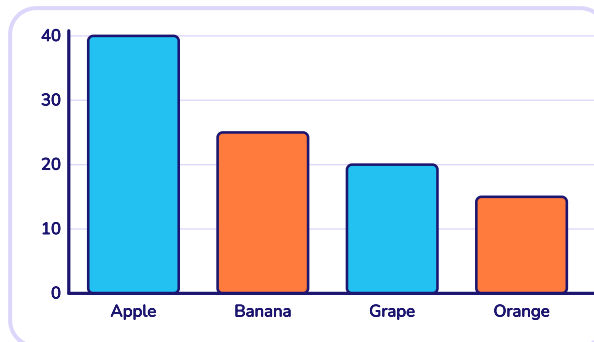
★★★

Jordan answered 34 of 40 questions correctly on a quiz. Sam answered 21 of 25 correctly on a different quiz. Who did better? Show your work.

22 Fruit survey



A school surveyed 120 students about their favorite fruit. The bar chart shows the percent who chose each fruit.



(a) How many students chose banana? (b) How many chose apple? (c) Which fruit was chosen by exactly 18 students?

23 Find the mistake



To find 20% of 50, Dev wrote $50 \div 20 = 2.5$. (a) Explain his mistake. (b) Find the correct answer in two different ways.



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Speed drill for Grade 6: how many in 60 seconds?



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