

Grade 6 · Percents · Quiz

Common Core 6.RP.A.3c · mathovore.fr

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

This quiz has 10 multiple-choice questions on converting percents, finding a percent of a number, and finding the whole. Pick one answer for each question, then read the explanation to see the right method and the typical mistake.

Grade 6 Common Core: 6.RP.A.3c

Questions

Question 1

What is 40% written as a fraction in simplest form?



40% is 4 of 10 equal parts.

- A. $\frac{2}{5}$
- B. $\frac{4}{5}$
- C. $\frac{1}{40}$
- D. $\frac{40}{10}$

Question 2

What is 0.07 written as a percent?

- A. 0.07%
- B. 7%
- C. 70%
- D. 700%

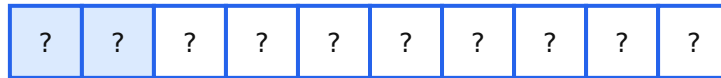
Question 3

What is $\frac{3}{4}$ written as a percent?

- A. 34%
- B. 25%
- C. 75%
- D. 7.5%

Question 4

What is 20% of 90?



20% of 90 is 2 of 10 equal parts of 90.

- A. 70
- B. 18
- C. 20
- D. 180

Question 5

What is 15% of 60?

- A. 90
- B. 9
- C. 45
- D. 0.9

Question 6

Maya made 18 of 24 free throws. What percent did she make?



18 of 24 free throws; each square is 2 shots.

- A. 75%
- B. 25%
- C. 133%
- D. 18%

Question 7

30% of a number is 21. What is the number?

- A. 6.3
- B. 51
- C. 630
- D. 70

Question 8

A backpack is 25% off. What is the sale price?



Backpack

25% off

Sale tag for the backpack.

Question 9

Which number is greatest?

- A. $\frac{5}{8}$
- B. 0.6
- C. 55%
- D. $\frac{1}{2}$

Question 10

45 is 75% of what number?

- A. 33.75
- B. 120
- C. 60
- D. 75

Answer key

1. **A** - $40\% = \frac{40}{100}$, and dividing both by 20 gives $\frac{2}{5}$. The fraction $\frac{1}{40}$ puts the percent in the denominator.
2. **B** - Multiply by 100: $0.07 \times 100 = 7$, so 7%. The answer 70% comes from moving the decimal point only one place.
3. **C** - $\frac{3}{4} = \frac{75}{100} = 75\%$. The choice 34% joins the digits 3 and 4 instead of converting the fraction.
4. **B** - Compute $0.20 \times 90 = 18$. Subtracting 20 from 90 (70) is a common mistake.
5. **B** - Compute $0.15 \times 60 = 9$. The answer 90 comes from using 1.5 instead of 0.15.
6. **A** - Divide the part by the whole: $18 \div 24 = 0.75 = 75\%$. The answer 133% comes from dividing the whole by the part.
7. **D** - Divide the part by the percent: $21 \div 0.30 = 70$. Multiplying 21×0.30 gives 6.3, which finds a percent of the part instead.
8. **D** - The discount is $0.25 \times 60 = \$15$, so the sale price is $60 - 15 = \$45$. The is only the discount.
9. **A** - As decimals the choices are 0.625, 0.6, 0.55, and 0.5, so $\frac{5}{8}$ is greatest. Comparing forms without converting causes errors.
10. **C** - Divide: $45 \div 0.75 = 60$. The answer 33.75 finds 75% of 45 instead of the whole.

Remember:

- A percent is a rate per 100: $35\% = \frac{35}{100} = 0.35$.
- To find a percent of a number, multiply the number by the percent written as a decimal.
- To find the whole, divide the part by the percent written as a decimal.
- To find what percent a part is, divide the part by the whole and multiply by 100.
- A percent bar model shows 100% split into equal parts.