

Grade 4 · Decimal Fractions and Decimal Notation · Quiz

Common Core 4.NF.C.5, 4.NF.C.6, 4.NF.C.7 · mathovore.fr

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

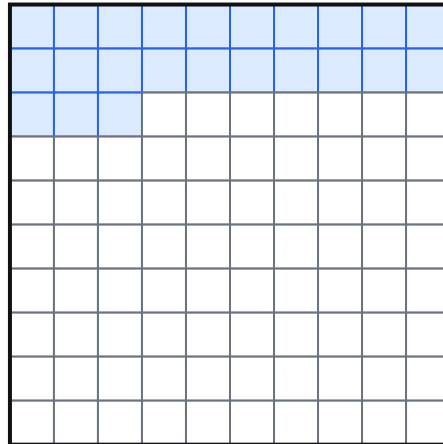
Check what you know about tenths, hundredths, decimal notation and comparing decimals. Each question has one correct answer. Read the model carefully, and use the explanation after each question to learn from any mistake.

Grade 4 Common Core: 4.NF.C.5 · 4.NF.C.6 · 4.NF.C.7

Questions

Question 1

Which decimal names the shaded part?



23 of 100 squares shaded.

- A. 0.023
- B. 2.3
- C. 0.32
- D. 0.23

Question 2

What is $\frac{9}{100}$ written as a decimal?

- A. 0.9
- B. 0.009
- C. 0.09

D. 9.00

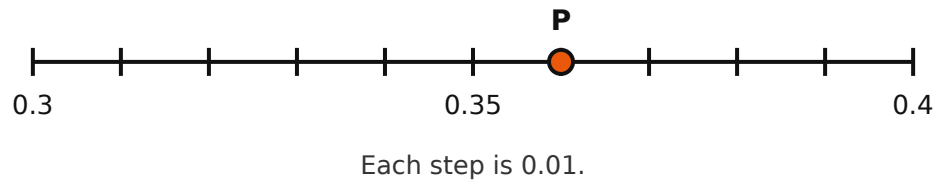
Question 3

Which fraction is equal to 0.6?

- A. $\frac{6}{100}$
- B. $\frac{1}{6}$
- C. $\frac{106}{1}$
- D. $\frac{6}{10}$

Question 4

Which decimal is point P?



- A. 0.36
- B. 0.63
- C. 0.46
- D. 0.34

Question 5

What is $\frac{3}{10} + \frac{4}{100}$ as a decimal?

- A. 0.07
- B. 0.43
- C. 0.34
- D. 0.7

Question 6

Which decimal is the greatest?

- A. 0.79
- B. 0.09
- C. 0.8
- D. 0.78

Question 7

Which statement is true?

- A. $0.5 = 0.50$
- B. $0.5 < 0.05$

C. $0.5 < 0.45$

D. $0.05 > 0.5$

Question 8

What is the value of the digit 4 in 7.45?

Ones	Tenths	Hundredths
7	4	5

The 4 is the first digit after the point.

A. 4 hundredths

B. 4 tenths

C. 4 ones

D. 40 tenths

Question 9

Sofia has 2 dimes and 5 pennies. What fraction of a dollar is that?

A. $\frac{7}{100}$

B. $\frac{25}{10}$

C. $\frac{52}{100}$

D. $\frac{25}{100}$

Question 10

Aisha has 0.4 yard of ribbon. Liam has 0.35 yard. Who has more, and why?

A. Liam, because 35 is greater than 4

B. Aisha, because 0.40 is greater than 0.35

C. Liam, because 0.35 has more digits

D. They have the same amount, because 0.4 and 0.35 both have 3 and 5

Answer key

1. **D** – 23 of 100 squares is twenty-three hundredths, 0.23. Reversing the digits (0.32) is a common mistake.
2. **C** – Nine hundredths has the 9 in the hundredths place, so a zero holds the tenths place. 0.9 is nine tenths.
3. **D** – The 6 is in the tenths place, so 0.6 is six tenths. Six hundredths would be 0.06.
4. **A** – The point is 6 steps after 0.3, so it is 0.36. Swapping the digits gives 0.63, which is greater than 0.4.
5. **C** – Rename $\frac{3}{10}$ as $\frac{30}{100}$, then add: $\frac{30}{100} + \frac{4}{100} = \frac{34}{100} = 0.34$. Adding the tops and bottoms ($\frac{7}{110}$) is a common mistake.
6. **C** – $0.8 = 0.80$, and 80 hundredths is more than 79, 78 or 9 hundredths. A decimal with more digits is not always greater.
7. **A** – Five tenths equals fifty hundredths. The other statements are false because 0.5 is greater than both 0.05 and 0.45.
8. **B** – The 4 is in the tenths place, so it is worth 0.4. In 7.45 the 5 is the one worth hundredths.
9. **D** – $\frac{2}{10} + \frac{5}{100} = \frac{20}{100} + \frac{5}{100} = \frac{25}{100}$. A dime is a tenth of a dollar and a penny is a hundredth.
10. **B** – Write 0.4 as 0.40 and compare hundredths: 40 is greater than 35. A longer decimal is not necessarily larger.

Remember:

- One tenth is $\frac{1}{10} = 0.1$ and one hundredth is $\frac{1}{100} = 0.01$.
- Ten hundredths make one tenth: $\frac{1}{10} = \frac{10}{100}$.
- A fraction with denominator 10 or 100 can be written as a decimal, and a decimal as a fraction.
- Add tenths and hundredths by renaming tenths as hundredths: $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$.
- Compare decimals place by place; $0.3 = 0.30$ is greater than 0.27.