

Grade 5 · Reading, Comparing and Rounding Decimals · Quiz

Common Core 5.NBT.A.3, 5.NBT.A.4 · mathovore.fr

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

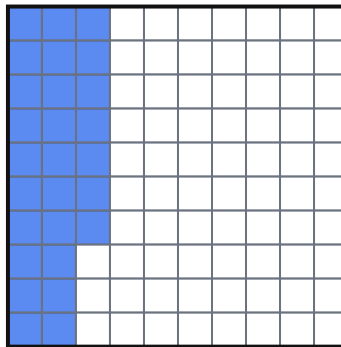
Ten multiple-choice questions check how well you read, write, compare and round decimals to thousandths (5.NBT.A.3 and 5.NBT.A.4). Choose one answer for each question, then read the explanation to find any common mistake.

Grade 5 Common Core: 5.NBT.A.3 · 5.NBT.A.4

Questions

Question 1

Which decimal does the grid show?



Twenty-seven squares are shaded.

- A. 0.27
- B. 0.027
- C. 2.7
- D. 0.72

Question 2

Which decimal is "four and six hundredths"?

- A. 4.6
- B. 4.006
- C. 4.06
- D. 0.46

Question 3

In 3.482, what is the value of the digit 8?

Ones	tenths	hundredths	thousandths
3	4	8	2

The number 3.482.

- A. 0.8
- B. 0.008
- C. 0.08
- D. 8

Question 4

Which expression equals 6.205?

- A. $6 \times 1 + 2 \times \frac{1}{100} + 5 \times \frac{1}{1000}$
- B. $6 \times 1 + 2 \times \frac{1}{10} + 5 \times \frac{1}{100}$
- C. $6 \times 10 + 2 \times 1 + 5 \times \frac{1}{10}$
- D. $6 \times 1 + 2 \times \frac{1}{10} + 5 \times \frac{1}{1000}$

Question 5

Which comparison is true?

- A. $0.35 > 0.4$
- B. $0.5 > 0.49$
- C. $2.07 > 2.7$
- D. $9.1 > 9.10$

Question 6

Which decimal has the same value as 0.70?

- A. 0.07
- B. 0.7
- C. 0.007
- D. 7.0

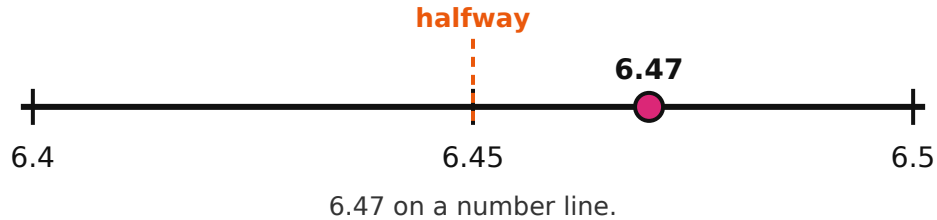
Question 7

Which list is in order from greatest to least?

- A. 0.52, 0.502, 0.25
- B. 0.25, 0.502, 0.52
- C. 0.502, 0.52, 0.25
- D. 0.52, 0.25, 0.502

Question 8

Round 6.47 to the nearest tenth.



- A. 6.5
- B. 6.4
- C. 6.6
- D. 6

Question 9

Round 0.995 to the nearest hundredth.

- A. 0.99
- B. 1.00
- C. 1.10
- D. 0.90

Question 10

A gas station posts .459 per gallon. What is the price rounded to the nearest cent?

- A. .45
- B. .50
- C. .40
- D. .46

Answer key

1. **A** – 27 of 100 squares is 27 hundredths, written 0.27. The mistake 0.027 would be 27 thousandths.
2. **C** – Hundredths needs two decimal places, so write a 0 in the tenths place: 4.06.
3. **C** – The 8 is in the hundredths place, so its value is 8 hundredths, 0.08.
4. **D** – 6.205 has 2 tenths, 0 hundredths and 5 thousandths. The other choices use the wrong places, such as 6.025 or 6.25.
5. **B** – 0.5 is 50 hundredths and 0.49 is 49 hundredths. The other choices compare as if the numbers were whole, or forget that $9.1 = 9.10$.
6. **B** – A zero at the end of a decimal does not change its value, so $0.70 = 0.7$.
7. **A** – Write them as 0.520, 0.502, 0.250. The mistake is thinking 0.502 is greater than 0.52 because 502 is a bigger whole number than 52.
8. **A** – The hundredths digit is 7, which is 5 or more, so round up to 6.5.
9. **B** – The thousandths digit is 5, so round up 0.99 to 1.00.
10. **D** – The thousandths digit is 9, so round the 5 in the hundredths place up to 6.

Remember:

- Decimal places are tenths, hundredths and thousandths; each is 10 times smaller than the place to its left.
- Expanded form of 0.37: $3 \times \frac{1}{10} + 7 \times \frac{1}{100}$.
- Compare digits from the left, place by place; zeros at the end do not change the value.
- To round, look at the digit to the right of the target place: 5 or more rounds up.
- A decimal like 0.4 and 0.40 name the same amount.