

Grade 4 - Comparing Fractions - Quiz

Common Core 4.NF.A.2 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

Choose the best answer for each of the 10 questions on comparing fractions. Read the explanation after each question to learn from any mistake.

Grade 4 · Common Core State Standards: **4.NF.A.2**

Questions

Question 1

Which comparison is true?

- A. $\frac{1}{10} > \frac{1}{100}$
- B. $\frac{1}{10} < \frac{1}{100}$
- C. $\frac{1}{10} = \frac{1}{100}$
- D. $\frac{1}{10} > \frac{1}{1000}$

Question 2

Which fraction is greater, $\frac{1}{3}$ or $\frac{1}{5}$?

- A. $\frac{1}{3}$
- B. $\frac{1}{5}$
- C. They are equal
- D. It cannot be told

Question 3



Strips for $\frac{3}{4}$ and $\frac{5}{8}$.

Which statement is true?

- A. $\frac{3}{4} < \frac{5}{8}$
- B. $\frac{3}{4} = \frac{5}{8}$
- C. $\frac{3}{4} > \frac{5}{8}$

D. $\frac{3}{4} > \frac{5}{8}$

Question 4

Which fraction is less than $\frac{1}{2}$?

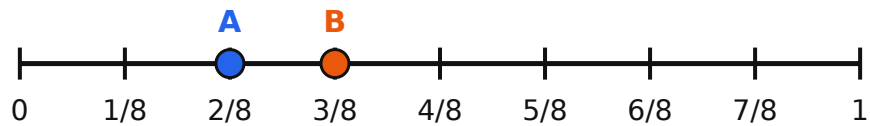
- A. $\frac{1}{2}$
- B. $\frac{1}{4}$
- C. $\frac{3}{4}$
- D. $\frac{7}{10}$

Question 5

Which comparison is true?

- A. $\frac{3}{4} > \frac{1}{2}$
- B. $\frac{3}{4} = \frac{1}{2}$
- C. $\frac{3}{4} < \frac{1}{2}$
- D. $\frac{3}{4} < \frac{1}{4}$

Question 6



A number line in eighths with points A and B.

Point A is at $\frac{1}{4}$. Which comparison is true for A and B?

- A. $\frac{1}{4} > \frac{3}{8}$
- B. $\frac{1}{4} < \frac{3}{8}$
- C. $\frac{1}{4} = \frac{3}{8}$
- D. $\frac{1}{4} < \frac{1}{4}$

Question 7

Which list is in order from least to greatest?

- A. $\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{4}$
- B. $\frac{1}{4}, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}$
- C. $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}, \frac{1}{4}$
- D. $\frac{1}{4}, \frac{1}{8}, \frac{1}{2}, \frac{1}{4}$

Question 8



Strips for $\frac{5}{6}$ and $\frac{7}{10}$.

Which fraction is greater?

- A. $\frac{5}{6}$
- B. $\frac{7}{10}$
- C. They are equal
- D. It cannot be told

Question 9

Which statement correctly compares $\frac{4}{5}$ and $\frac{4}{6}$?

- A. $\frac{4}{5} < \frac{4}{6}$ because 5 is less than 6
- B. $\frac{4}{5} > \frac{4}{6}$ because fifths are bigger than sixths
- C. $\frac{4}{5} = \frac{4}{6}$ because the numerators match
- D. $\frac{4}{5} < \frac{4}{6}$ because 6 pieces is more

Question 10

Diego ran $\frac{3}{4}$ mile and Mei ran $\frac{5}{6}$ mile. Who ran farther?

- A. Diego, because 4 is less than 6
- B. They ran the same distance
- C. Mei, because 5 is less than 6
- D. Mei, because $\frac{10}{12}$ is greater than $\frac{9}{12}$

Answers

1. **A** - With the same denominator, compare numerators. 5 is greater than 3. The reversed statement shows the other order.
2. **B** - Thirds are bigger pieces than fifths. A bigger denominator does not mean a bigger fraction.
3. **D** - $\frac{3}{4} = \frac{6}{8}$, and 6 eighths is more than 5 eighths. The top strip is longer.
4. **A** - Half of 8 is 4, and 3 is less than 4. The others have numerators more than half the denominator.
5. **C** - In twelfths, $\frac{2}{3} = \frac{8}{12}$ and $\frac{3}{4} = \frac{9}{12}$. 8 is less than 9.
6. **B** - A is at 2 eighths and B is at 3 eighths. Points to the right are greater.
7. **C** - In eighths the fractions are 1, 2, 4 and 6. The second list starts with the greatest unit fraction.
8. **A** - In thirtieths, $\frac{5}{6} = \frac{25}{30}$ and $\frac{7}{10} = \frac{21}{30}$. The $\frac{5}{6}$ strip is longer.
9. **B** - With the same numerator, the smaller denominator gives bigger pieces.
10. **D** - $\frac{3}{4} = \frac{9}{12}$ and $\frac{5}{6} = \frac{10}{12}$. The denominators alone do not decide the answer.

Remember

- Compare fractions only when they are parts of the same whole.
- Same denominator: compare numerators. Same numerator: compare denominators and the smaller denominator is greater.
- A common denominator turns a hard comparison into a numerator comparison, such as $8/12 < 9/12$.
- Benchmark $1/2$: a fraction is less than $1/2$ when its numerator is less than half the denominator.
- Record a comparison with $>$, $<$ or $=$ and check it on a number line.