

Fractions and Decimals Quiz

Time: 20 min. 6 questions.

Instructions

Answer all six questions in the space provided. Show your work for the numeric question so your teacher can see how you found your answer. You may use a number line or draw a picture to help with any question about fractions or decimals.

Questions

1. In the number 5.47, what is the value of the digit 4?

- A) 4 ones
- B) 4 tenths
- C) 4 hundredths
- D) 4 tens

[\(Outcome\)](#)

2. Sam says that $\frac{3}{4}$ and $\frac{6}{8}$ are equivalent fractions. Explain how you know he is right or wrong. Use the idea of multiplying the numerator and denominator by the same number in your answer.

[\(Outcome\)](#)

3. True or false: A decimal number that terminates, such as 0.6, can always be written as a fraction with a denominator of 10, 100, or another power of 10.

[\(Outcome\)](#)

4. Kayla buys a sandwich for 4.65 dollars and a juice box for 1.80 dollars. How much does she spend in total? Give your answer as a number of dollars.

[\(Outcome\)](#)

5. Which fraction below is already written in simplest form?

- A) $\frac{4}{8}$
- B) $\frac{6}{9}$
- C) $\frac{5}{7}$
- D) $\frac{10}{15}$

[\(Outcome\)](#)

6. Write $\frac{7}{10}$ as a decimal number, and write 0.25 as a fraction. Show how the denominator relates to the place value of the last digit.

[\(Outcome\)](#)

Curriculum coverage

Question	Outcome alias
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Answer key

1. B) 4 tenths. In 5.47, the digit 4 sits one place to the right of the decimal point, in the tenths place ([Outcome](#)).
2. Sam is right. Multiplying both the numerator and denominator of $\frac{3}{4}$ by 2 gives $\frac{6}{8}$, so the two fractions are equivalent and sit at the same point on the number line ([Outcome](#)).
3. True. A terminating decimal such as 0.6 can be written as $\frac{6}{10}$, because each decimal place corresponds to a fraction with a denominator of 10, 100, and so on ([Outcome](#)).
4. 6.45 dollars. Adding 4.65 and 1.80 using the standard algorithm for decimal addition gives 6.45 dollars ([Outcome](#)).
5. C) $\frac{5}{7}$. The numerator and denominator of $\frac{5}{7}$ share no common factor other than 1, so the fraction is already in simplest form. The other fractions can each be simplified further ([Outcome](#)).
6. $\frac{7}{10} = 0.7$, because the denominator 10 matches the tenths place. $0.25 = \frac{25}{100}$, because the last digit, 5, is in the hundredths place, so the denominator is 100 ([Outcome](#)).