

Converting decimals to fractions

WHAT THIS LESSON TEACHES

The place value of the last decimal digit names the bottom number of the fraction. Simplify by dividing top and bottom by their greatest common divisor.

→ 7 is $7/10$.

→ 25 is $25/100$ which simplifies to $1/4$.

MODEL THIS ON THE BOARD

CONVERT 0.45 TO A FRACTION

- ① Look at the last digit in the hundredths place so the denominator is 100.
- ② Write 45 over 100.
- ③ Divide top and bottom by 5 to get $9/20$.

ANSWER KEY

Scaffold: visual check on the page

Q1: $4/5$

Q2: $2/5$

Q3: $1/4$

Q4: $7/20$

Q5: $3/8$

Q6: $2/25$

a) Always — One decimal place means tenths.

b) Always — Divide 25 and 100 by 25.

c) Never — Decimals less than 1 give proper fractions.

d) Always — That keeps the value the same.

EXTENSION SHEET · STRETCH ANSWERS

S1: $0.75 = 3/4 = 75\%$

S2: $3/5 = 0.6 = 60\%$