DECIMALS TO FRACTIONS - A

EXAMPLE #1

$0.3\ 7 \Rightarrow 0.3\ 7 \Rightarrow \dfrac{37}{100}$ ← SEE THE TWO ZEROS?

1 2

ASK YOURSELF, "HOW MANY DIGITS (NUMBERS) ARE TO THE RIGHT OF THE DECIMAL?" ANSWER: **2**.

USE THAT ANSWER TO MAKE A FRACTION. SINCE THERE ARE TWO DIGITS TO THE RIGHT, IT MEANS **HUNDREDTHS**.

EXAMPLE #2

SEE THE ONE ZERO?

$0.9 \Rightarrow 0.9 \Rightarrow \dfrac{9}{10}$ ↙

1

ASK YOURSELF, "HOW MANY DIGITS (NUMBERS) ARE TO THE RIGHT OF THE DECIMAL?" ANSWER: **1**.

SINCE THERE'S ONE DIGIT TO THE RIGHT, IT MEANS **TENTHS**.

HOW MANY DIGITS ARE TO THE RIGHT OF THE DECIMAL AND WHAT DOES IT MEAN?

1. 0.123 HAS _3_ DIGITS TO THE RIGHT OF THE DECIMAL, WHICH MEANS _THOUSANDTHS_.

2. 0.7 HAS _1_ DIGIT TO THE RIGHT OF THE DECIMAL, WHICH MEANS _TENTHS_.

3. 5.05 HAS _2_ DIGITS TO THE RIGHT OF THE DECIMAL, WHICH MEANS _HUNDREDTHS_.

4. 21.9 HAS _1_ DIGIT TO THE RIGHT OF THE DECIMAL, WHICH MEANS _TENTHS_.

5. 45.401 HAS _3_ DIGITS TO THE RIGHT OF THE DECIMAL, WHICH MEANS _THOUSANDTHS_.

6. 0.64 HAS _2_ DIGITS TO THE RIGHT OF THE DECIMAL, WHICH MEANS _HUNDREDTHS_.

DRAW A LINE TO THE FRACTION AND DECIMAL THAT ARE EQUAL.

$\dfrac{67}{1000}$ 0.09 $\dfrac{3}{10}$

$\dfrac{9}{10}$ 0.007   0.3   0.67 $\dfrac{1}{100}$

$\dfrac{1}{10}$ 0.9   0.003 $\dfrac{9}{100}$

$\dfrac{67}{100}$ 0.1   0.07 $\dfrac{7}{100}$

$\dfrac{7}{1000}$ 0.067   0.01 $\dfrac{3}{1000}$

REWRITE THE DECIMALS AS FRACTIONS.

7. 0.49 ⇒ 49/100

8. 0.001 = 1/1000

9. 0.083 = 83/1000

10. 0.03 = 3/100

11. 0.7 = 7/10

12. 0.941 = 941/1000

13. 0.1 = 1/10

14. 0.29 = 29/100

15. 0.09 = 9/100

DO YOU SEE A PATTERN BETWEEN THE DIGITS TO THE RIGHT OF THE DECIMALS AND THE ZEROS IN THE FRACTIONS?

DECIMALS TO FRACTIONS - B

HELPFUL EXAMPLE

SOMETIMES, YOU MIGHT NEED TO SIMPLIFY THE FRACTION. *MAKE THE NUMBERS SMALLER*

$0.1\ 5 \Rightarrow 0.1\ 5 \Rightarrow \dfrac{15}{100} \div \dfrac{5}{5} = \dfrac{3}{20}$

1 2   ANSWER

WHEN DIVIDING, DO THE SAME THING TO THE TOP AND BOTTOM.

REWRITE THE DECIMALS AS FRACTIONS IN SIMPLEST FORM.

1. 0.25 ⇒ 1/4

2. 0.50 = 1/2

3. 0.75 = 3/4

4. 0.061 = 61/1000

5. 0.5 = 1/2

6. 0.33 = 33/100

7. 0.08 = 2/25

8. 0.10 = 1/10

9. 0.136 = 17/125

10. 0.15 = 3/20

11. 0.200 = 1/5

12. 0.42 = 21/50

13. 0.05 = 1/20

14. 0.088 = 11/125

15. 0.6 = 3/5

16. 0.160 = 4/25

17. 0.071 = 71/1000

18. 0.36 = 9/25

19. 0.99 = 99/100

20. 0.40 = 2/5

21. 0.125 = 1/8