

LEVEL 1: The Basics

Q1: Convert each number to the indicated form.

TYPE 1: Fractions to Decimals

$$\stackrel{\bullet}{•} \frac{1}{2}$$

$$\stackrel{3}{•} \frac{3}{4}$$

$$\stackrel{\bullet}{•} \frac{7}{20}$$

TYPE 2: Decimals to Fractions

TYPE 3: Decimals to Percentages

TYPE 4: Percentages to Decimals

Q2: Complete this table.

Fraction	Decimal	Percentage
$\frac{6}{10}$	0.6	
	0.3	
		25%
$\frac{3}{4}$		75%

LEVEL 2: Dive Deeper

Q1: Convert each number to the indicated form.

TYPE 1: Fractions to Decimals

$$\stackrel{4}{•} \frac{3}{5}$$

$$\clubsuit \frac{7}{21}$$

$$\Rightarrow \frac{3}{8}$$

TYPE 2: Decimals to Fractions

TYPE 3: Decimals to Percentages

TYPE 4: Percentages to Decimals

Q2: Compare using <, >, or =

Q3: On a math test, Sarah answered 18 out of 20 questions correctly. What percentage did she score? Express this as a decimal and a simplified fraction.



LEVEL 3: Mastering the Concept

Q1: Complex Conversions

- Convert 36% to a simplified fraction and a decimal.
- Convert 0.005 to a percentage and a simplified fraction.
- Convert 0.1666... (repeating) to a fraction.
- Convert $\frac{1}{7}$ to a decimal (round to 2 decimal places).
- Convert $2\frac{1}{3}$ to a decimal (round to 3 decimal places) and a percentage.

Q2: Operations with Mixed Forms (10 questions)

- ❖ If a shirt cost \$40 and is on sale for 25% off, what is the discount in dollars?
- What is $\frac{1}{3}$ of 90? What is 30% of 90? Compare the results.
- Calculate $\frac{1}{2} + 0.25 + 10\%$

(express answer as a decimal).

❖ Calculate 75% of 200, then subtract $\frac{1}{5}$ of 100

(express answer as a whole number).

Q3: Arrange in order, from smallest to largest.

$$\frac{7}{10}$$
, 0.9, $\frac{4}{5}$, 0.77, $\frac{3}{4}$

EXTRA PROBLEMS:

- 1) A test has 40 questions. You got 34 correct. What's your % score?
- 2) What is 0.75 of 60?
- 3) A pen cost \$1.20. This is 80% of the original price. What was the original price?
- 4) A student says 0.5 = 5%. Is this correct? Explain.
- 5) A student converted 0.003 to a percentage and got 3%. Explain the mistake and provide the correct conversion.
- 6) A survey found that 0.4 of students prefer apples, $\frac{3}{8}$ prefer bananas, and the rest prefer oranges. What percentage of students prefer oranges?