

Converting decimals to fractions

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

Read the decimal's place value to write it as a fraction over 10, 100 or 1000, then **simplify**.

U	t	h

- 0.6 = 6/10 = 3/5.
- 0.25 = 25/100 = 1/4.

WRITE 0.35 AS A FRACTION IN SIMPLEST FORM

- 1 0.35 is 35 hundredths → 35/100.
- 2 Divide top and bottom by 5: 7/20.

HOW TO ANSWER TODAY

- **Fraction · decimal · %**. Divide top by bottom to get a decimal. Multiply a decimal by 100 to get a percent. Write fractions in lowest terms.
1/4 = 0.25 = 25% · 0.6 = 60% = 3/5

WARM-UP

Complete the decimal → fraction (simplest form) table.

	Fraction (simplest form)
a. 0.5	
b. 0.25	
c. 0.2	
d. 0.75	
e. 0.6	

PRACTICE

- 1 5th class are watching the bird feeder at the classroom window during nature week. Out of the visits Niamh tallies on Monday, 75% are by goldfinches. Write 75% as a fraction in its lowest terms and as a decimal.
- 2 Saoirse and her 5th class collect autumn leaves for an art lesson in the school garden. Of all the leaves gathered, 0.75 of them are golden brown. Express 0.75 as a fraction in lowest terms and as a percentage.