

Fractions, decimals and percentages review

WHAT THIS LESSON TEACHES

A fraction, a decimal and a percentage can name the same amount. Three ways of writing, one value.

→ $3/5 = 0.6 = 60\%$

→ $3/5$, 0.55 and 58% become 0.60, 0.55 and 0.58 to order them.

MODEL THIS ON THE BOARD

CONVERT, COMPARE AND DISCOUNT

- 1 Write $7/10$ as 0.70 and 70%.
- 2 Write 0.72 as $72/100$ and 72%.
- 3 Write 68% as 0.68 and $68/100$.
- 4 68 is smallest, 0.72 is biggest.
- 5 20% off €35 is $0.20 \times 35 = €7$ off.

DISCUSSION STARTER

REFLECT Where in real life do you meet fractions, decimals or percentages most?

ANSWER KEY

Scaffold: visual check on the page

Q1: €25; 0.5; 50%

Q2: 30% bigger

Q3: 0.75; 75%

Q4: 68%, $7/10$, 0.72

a) Sometimes — Some fractions like $1/3$ give repeating decimals.

b) Always — They name exactly the same amount.

c) Never — You can convert first then compare.

d) Always — They are always the same.

EXTENSION SHEET · STRETCH ANSWERS

S1: $1/5 < 3/4 < 7/8$

S2: $15 (3/4 = 15/20)$

S3: 55 ($11/12 = 55/60$)

S4: $2/5 < 7/8 < 11/12$