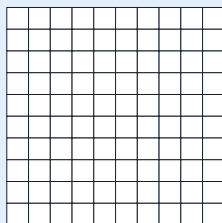


Fractions, decimals and percentages review

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

Bring the three forms together: **convert, compare and calculate** with fractions, decimals and percentages in real situations.



→ Which is bigger: $\frac{3}{5}$, 0.62 or 58%? Convert all to decimals to decide.

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.

$$\frac{1}{4} = 0.25 = 25\% \quad 0.6 = 60\% = \frac{3}{5}$$

- **Different-bottom fractions.** Bottoms different → make them the same first (common denominator). Then add or subtract the tops.

$$\frac{1}{2} + \frac{1}{3} \rightarrow \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

- **Equivalent fractions.** Whatever you multiply (or divide) the bottom by, do the same to the top.

$$\frac{2}{5} = \frac{?}{15}. \text{ Bottom } \times 3, \text{ so top } \times 3 \rightarrow \frac{6}{15}$$

WARM-UP

- | | | | |
|---|---|---|---|
| <p>a. Express 75% as a fraction in lowest terms and as a decimal.</p> <p><input type="text"/></p> | <p>b. Express 0.75 as a fraction in lowest terms and as a percentage.</p> <p><input type="text"/></p> | <p>c. Express 10% as a fraction in lowest terms and as a decimal.</p> <p><input type="text"/></p> | <p>d. Express 20% as a fraction in lowest terms and as a decimal.</p> <p><input type="text"/></p> |
|---|---|---|---|

PRACTICE

- 1 Saoirse's granny bakes two barmbracks for Halloween. The family eats $\frac{2}{5}$ of the first barmbrack on Saturday and $\frac{1}{6}$ of the second barmbrack on Sunday morning. How much barmbrack have they eaten in total?

- 2 At Camogie training under the floodlights, the coach says $\frac{3}{4}$ of the squad must stay back for extra puck-around drills. There are 20 players at training in total. How many players is that, written as $\frac{?}{20}$?

Fill in the missing number: $\frac{3}{4} = \frac{?}{20}$

ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true?

- | | |
|--|---|
| <p>a. A fraction is less than 1. ☐</p> <p>b. $\frac{1}{2}$, 0.5 and 50% are the same value. ☐</p> <p>c. A bigger denominator makes a bigger fraction. ☐</p> <p>d. A percentage can be more than 100%. ☐</p> | <p>e. Multiplying by $\frac{1}{2}$ gives the same answer as dividing by 2. ☐</p> <p>f. To compare two fractions you must give them the same denominator. ☐</p> |
|--|---|

REFLECT

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