

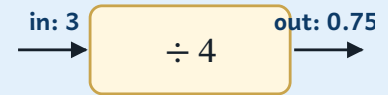
Lesson 33 **NUMBER****Converting fractions to decimals**

WHAT THIS LESSON TEACHES

A fraction means **divide**: the top by the bottom. Some give exact decimals, others repeat.

$$\rightarrow 3/4 = 3 \div 4 = \mathbf{0.75}.$$

$$\rightarrow 1/3 = \mathbf{0.333...}$$
 (it repeats).



MODEL THIS ON THE BOARD

CONVERT 3/4 TO A DECIMAL

$$\begin{array}{r} 0.75 \\ 4 \overline{) 3.00} \\ \underline{3} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

- ① A fraction means divide: $3 \div 4$.
- ② 3 won't divide by 4, so write 3.00 and keep going.
- ③ $30 \div 4 = 7 \text{ r } 2$; $20 \div 4 = 5 \rightarrow \mathbf{0.75}$.

ANSWER KEY

a) $1/2$: 0.5

b) $1/4$: 0.25

c) $3/4$: 0.75

d) $1/5$: 0.2

e) $3/10$: 0.3

Q1: $3/5 = 0.6 = 60\%$

Q2: $20\% = 1/5 = 0.2$

Q3: $75\% = 3/4 = 0.75$

Q4: $0.75 = 3/4 = 75\%$

EXTENSION SHEET · STRETCH ANSWERS

S1: $3/5 = 0.6 = 60\%$

S2: $75\% = 3/4 = 0.75$

S3: $0.75 = 3/4 = 75\%$