

The quotient of two rational numbers is
always a rational number

Connect

rational numbers

any number that CAN be written as a fraction

$$\frac{-6}{1}$$

$$\frac{2}{3} \text{ or } 7\frac{1}{4}$$

↓

$$\frac{21}{4}$$

terminating decimal

$$3.25$$

↓

$$3\frac{1}{4}$$

↓

$$\frac{13}{4}$$

repeating decimals

$$5.\overline{1}$$

↓

$$5\frac{1}{9}$$

↓

$$\frac{46}{9}$$

I do

the quotient of two rational numbers will always be a rational number

$$13 \div 8$$

$$-\frac{3}{7} \div \left(-\frac{9}{2}\right)$$

$$-6.2 \div 2.\overline{33333}$$

We do the quotient of any two rational numbers will be a rational number

$$19 \div (-3)$$

$$\left(-\frac{1}{2}\right) \div \left(\frac{7}{10}\right)$$

$$10.25 \div 3.111\bar{1}$$

You do together
on whiteboard

→ Show that
It is a fraction
Prove that each quotient
is a rational number

You do alone on
index card

$$5 \div \left(-\frac{3}{4}\right)$$

$$-6.\bar{6} \div 1.5$$

$$-12.75 \div (-2.\overline{333})$$

$$\frac{5}{8} \div \left(-\frac{7}{3}\right)$$