

Division with decimal answers – sharing what's left

MODEL THIS ON THE BOARD

13 ÷ 4 WITH A DECIMAL ANSWER

$$\begin{array}{r}
 3 \ . \ 2 \ 5 \\
 4 \overline{) 1 \overset{1}{3} \ . \overset{1}{0} \overset{2}{0}} \\
 \underline{12} \\
 10 \\
 \underline{8} \\
 20 \\
 \underline{20} \\
 0
 \end{array}$$

- ① $13 \div 4 = 3 \text{ r } 1$. Instead of stopping, add a decimal point and a zero — keep dividing.
- ② Bring the 1 down to make **10**: $10 \div 4 = 2 \text{ r } 2$.
- ③ Bring another 0 down to make **20**: $20 \div 4 = 5$. Answer: **3.25**.

ANSWER KEY

a) $13 \div 4 = \text{**}3.25\text{**}$ (leftover $1 \div 4 = 0.25$).

Q2: 129

b) $27 \div 5 = \text{**}5.4\text{**}$ (leftover $2 \div 5 = 0.4$).

Q3: 686.9

c) $9 \div 8 = \text{**}1.125\text{**}$ (leftover $1 \div 8 = 0.125$).

Q4: 983.4

Q1: 185

EXTENSION SHEET · STRETCH ANSWERS

S1: 852.8

S3: 150

S2: 196