

# FRACTIONS TO DECIMALS

## SKILLS QUESTIONS

Q1. Use short division to turn the following fractions into decimals. Check your answers with a calculator.

(a)  $\frac{1}{2} = 2 \overline{)1.0} =$

(b)  $\frac{1}{5} =$

(c)  $\frac{3}{8} =$

(d)  $\frac{5}{10} =$

Continue using the calculator to find the decimal value of the following fractions.

(e)  $\frac{1}{3} =$

(f)  $\frac{1}{6} =$

(g)  $\frac{1}{7} =$

(h)  $\frac{1}{9} =$

(i)  $\frac{1}{11} =$

(j)  $\frac{1}{12} =$

Q2. Which of the fractions in Q1 are recurring fractions?

3. Mechanics use tools that have old Imperial sizes (fractions of inches) and new Metric sizes (decimals of millimetres).

1 inch = 25.4 millimetres  
1" = 25.4mm



Change the following tool sizes in inches to millimetres by multiplying by 25.4. Write the answer to 1 decimal place.

(a)  $\frac{1}{2}$  inch

(b)  $\frac{3}{8}$  inch

(c)  $\frac{5}{8}$  "

Q4. Change these fractions to decimals. Then write them from smallest to largest.

(a)  $\frac{2}{3}$ ,  $\frac{1}{8}$ ,  $\frac{1}{2}$

(b)  $\frac{5}{8}$ ,  $\frac{1}{4}$ ,  $\frac{1}{3}$



Q5. This feeler gauge is used to measure the width of gaps in spark plugs. Arrange these decimals from smallest to largest.

(a) 0.04mm, 0.15mm, 0.07mm, 0.10mm

(b) 0.10mm, 0.06mm, 0.15mm, 0.05mm

# ANSWERS

Q2. e, f, h, i

Q3. (a) 12.7

(b) 9.5

(c) 15.9

Q4. (a)  $\frac{1}{8}$   $\frac{1}{2}$   $\frac{2}{3}$

(b)  $\frac{1}{4}$   $\frac{1}{3}$   $\frac{5}{8}$

Q5. (a) 0.04, 0.07, 0.10, 0.15

(b) 0.05, 0.06, 0.10, 0.15