



- 1 Write these fractions in order of size, starting with the smallest.

$$\frac{1}{2} \quad \frac{1}{5} \quad \frac{1}{3} \quad \frac{1}{10}$$

(1 mark)

For unit fractions, the larger the denominator, the smaller the fraction

So the order is $\frac{1}{10}, \frac{1}{5}, \frac{1}{3}, \frac{1}{2}$

Each unit fraction takes one equal piece of the same whole. Dividing the whole into more pieces makes each piece smaller

$$\frac{1}{10}, \frac{1}{5}, \frac{1}{3}, \frac{1}{2}$$

- 2 Write down the larger number: 0.8 or 0.75

(1 mark)

$$0.8 = 0.80$$

$$= 0.80 > 0.75$$

$$0.8$$

- 3 Here are four numbers.

0.505 0.55 0.5 0.51

Write down the smallest of these numbers.

(1 mark)

Write each number with three decimal places: 0.505, 0.550, 0.500, 0.510

The smallest is 0.500, which is 0.5

$$0.5$$

- 4 Write down the value of the 6 in the number 3.462

(1 mark)

tenths 4, hundredths 6, thousandths 2

$$6 \text{ hundredths } (0.06)$$

5 Work out 4.37×100

(1 mark)

Move each digit 2 places to the left

$$4.37 \times 100 = 437$$

437

6 Write these numbers in order of size. Start with the smallest number.

0.72 0.7 0.702 0.727 0.27

(1 mark)

Write each number with three decimal places: 0.720, 0.700, 0.702, 0.727, 0.270

Order: 0.270, 0.700, 0.702, 0.720, 0.727

So the order is 0.27, 0.7, 0.702, 0.72, 0.727

0.27, 0.7, 0.702, 0.72, 0.727

7 Choose the correct symbol, $<$, $>$ or $=$, to make each statement true.

a. $\frac{3}{5} \text{ — } \frac{7}{10}$

b. $\frac{4}{6} \text{ — } \frac{2}{3}$

(2 marks)

(a) $\frac{3}{5} = \frac{6}{10}$, and $\frac{6}{10} < \frac{7}{10}$, so the symbol is $<$

(b) $\frac{4}{6}$ simplifies to $\frac{2}{3}$, so the symbol is $=$

8 Write these numbers in order of size, starting with the smallest.

0.9 0.09 0.19 0.1

(2 marks)

Write each to 2 decimal places

0.90 0.09 0.19 0.10

Smallest first

0.09, 0.1, 0.19, 0.9

- 9 Write these fractions in order of size, starting with the smallest.

$$\frac{3}{4} \quad \frac{5}{8} \quad \frac{1}{2} \quad \frac{7}{8}$$

(2 marks)

Common denominator is 8

$$\frac{6}{8} \quad \frac{5}{8} \quad \frac{4}{8} \quad \frac{7}{8}$$

Smallest first

$$\boxed{\frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{7}{8}}$$

- 10 Which is larger, $\frac{5}{8}$ or 0.6?

You must show your working.

(2 marks)

$$\begin{aligned} \frac{5}{8} &= 5 \div 8 = 0.625 \\ &= 0.625 > 0.600 \end{aligned}$$

$$\boxed{\frac{5}{8} \text{ is larger}}$$

- 11 Write these fractions in order of size, starting with the smallest.

$$\frac{2}{3} \quad \frac{3}{4} \quad \frac{7}{12} \quad \frac{5}{6}$$

(2 marks)

Use a common denominator of 12

$$\frac{2}{3} = \frac{8}{12}, \quad \frac{3}{4} = \frac{9}{12}, \quad \frac{7}{12} = \frac{7}{12}, \quad \frac{5}{6} = \frac{10}{12}$$

$$\text{In order: } \frac{7}{12}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$$

$$\boxed{\frac{7}{12}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}}$$

- 12 Write < or > in each box to make each statement true.

a. $0.34 \square 0.4$

b. $2.5 \square 2.45$

(2 marks)

a) 0.34 is less than 0.40, so $0.34 < 0.4$

b) 2.50 is greater than 2.45, so $2.5 > 2.45$

- 13 Write down a decimal that is bigger than 0.45 and smaller than 0.46

(1 mark)

$$0.45 = 0.450$$

$$0.46 = 0.460$$

$$0.455$$

- 14 Write these numbers in order of size, starting with the smallest.

$$0.6 \quad 55\% \quad \frac{1}{2}$$

(1 mark)

Convert to decimals

$$0.6 = 0.6, 55\% = 0.55, \frac{1}{2} = 0.5$$

In order: $\frac{1}{2}$, 55%, 0.6

$$\frac{1}{2}, 55\%, 0.6$$

- 15 Write these numbers in order of size, starting with the smallest.

$$\frac{2}{5} \quad 0.44 \quad 39\% \quad \frac{1}{4}$$

(2 marks)

Convert to decimals

$$\frac{2}{5} = 0.4, 0.44 = 0.44, 39\% = 0.39, \frac{1}{4} = 0.25$$

In order: 0.25, 0.39, 0.4, 0.44

So the order is $\frac{1}{4}$, 39%, $\frac{2}{5}$, 0.44

$$\frac{1}{4}, 39\%, \frac{2}{5}, 0.44$$

16

Write these numbers in order of size, starting with the smallest.

$$\frac{2}{3} \quad 0.65 \quad 66\% \quad \frac{5}{8}$$

(3 marks)

Change everything to decimals

$$\frac{2}{3} = 0.6667$$

$$0.65$$

$$66\% = 0.66$$

$$\frac{5}{8} = 0.625$$

Smallest first

$$\boxed{\frac{5}{8}, 0.65, 66\%, \frac{2}{3}}$$