

ES2 - N5 Applications of Maths (Numeracy)
 Comparing Fractions, Decimals & %'s

Worked Solutions Courtesy of Mr R. Milton

① 22% ✓

$$\frac{22}{100} = \underline{0.22} \quad \checkmark$$

$$\frac{22}{100} = \underline{\frac{11}{50}} \quad \checkmark$$

② 0.08 ✓

$$0.08 \times 100 = \underline{8\%} \quad \checkmark$$

$$\begin{aligned} & (\div 4) \quad \frac{8}{100} = \underline{\frac{2}{25}} \quad \checkmark \\ & (\div 4) \end{aligned}$$

③ $\frac{3}{20}$ ✓

$$\frac{3}{\cancel{20}} \times \overset{5}{100} = \underline{15\%} \quad \checkmark$$

$$\frac{15}{100} = \underline{0.15} \quad \checkmark$$

④ 55% ✓

$$\frac{55}{100} = \underline{\frac{11}{20}} \quad \checkmark$$

$$\underline{0.55} \quad \checkmark$$

$$\textcircled{5} \quad \underline{0.7} \checkmark$$

$$0.7 \times 100 = \underline{70\%} \checkmark$$

$$\frac{70}{100} = \underline{\frac{7}{10}} \checkmark$$

$$\textcircled{6} \quad \frac{32}{40} = \frac{16}{20} = \frac{8}{10}$$

$$= \underline{\frac{4}{5}} \checkmark$$

$$\frac{4}{5} \times 100 = \underline{80\%} \checkmark$$

$$80\% = \frac{80}{100} = \underline{0.8} \checkmark$$

$$\textcircled{7} \quad \underline{12.5\%} \checkmark$$

$$\frac{12.5}{100} = \underline{\frac{1}{8}} \checkmark$$

$$\frac{12.5}{100} = \underline{0.125} \checkmark$$

$$\textcircled{8} \quad \underline{0.675} \checkmark$$

$$0.675 \times 100 = \underline{67.5\%} \checkmark$$

$$\frac{67.5}{100} = \frac{675}{1000}$$

$$= \frac{135}{200} = \underline{\frac{27}{40}} \checkmark$$

$$\textcircled{9} \quad \underline{\frac{5}{8}} \checkmark$$

$$\frac{5}{8} \times 100 = \frac{5 \times 25}{8 \times 2} = \frac{125}{2} = \underline{62.5\%} \checkmark$$

$$62.5\% = \frac{62.5}{100} = \underline{0.625} \checkmark$$

⑩

$$\frac{6}{7}$$



$$7 \overline{) 6.0000} \begin{array}{r} 0.8571 \\ 60 \\ 40 \\ 50 \\ 00 \end{array}$$

$$= \underline{0.86} \text{ (2 DP)}$$



$$0.86 \times 100 = \underline{86\%}$$

OR
→

$$\frac{6}{7} \times 100 = \frac{600}{7}$$

$$7 \overline{) 85.714} \begin{array}{r} 85.714 \\ 60 \\ 40 \\ 50 \\ 00 \end{array}$$

$$= \underline{85.71\%} \text{ (2 DP)}$$



AQ

① 0.832 (3)

$$\frac{5}{6} = 6 \overline{) 5.000} \begin{array}{r} 0.8333 \\ 50 \\ 00 \\ 00 \end{array}$$

$$83.33\% = 0.8333 \text{ (1)}$$

0.83 (4)

HIGHEST → SMALLEST

$$83.33\%, \frac{5}{6}, 0.832, 0.83$$

② 2022

$$\frac{25}{40} = \frac{5}{8} = \frac{10}{16}$$

2023

$$\frac{18}{32} = \frac{9}{16}$$

NO SINCE $\frac{9}{16} < \frac{10}{16}$ ✓