

**YEAR 6**

Fractions, Decimals and Percentages

Three sections. A fraction, a decimal and a percentage are three ways of writing the same thing, and the SATs papers move between them constantly. Give every fraction in its simplest form.

A. Converting

- 1 Write $\frac{3}{4}$ as a decimal. **0.75**
- 2 Write $\frac{2}{5}$ as a decimal. **0.4**
- 3 Write $\frac{7}{10}$ as a decimal. **0.7**
- 4 Write $\frac{1}{8}$ as a decimal. **0.125**
- 5 Write $\frac{3}{8}$ as a decimal. **0.375**
- 6 Write 0.25 as a fraction in its simplest form. **$\frac{1}{4}$**
- 7 Write 0.6 as a fraction in its simplest form. **$\frac{3}{5}$**
- 8 Write 0.35 as a fraction in its simplest form. **$\frac{7}{20}$**

B. Calculating with fractions

- 9 Work out $\frac{1}{2} + \frac{1}{3}$, in its simplest form. **$\frac{5}{6}$**
- 10 Work out $\frac{3}{4} + \frac{1}{6}$, in its simplest form. **$\frac{11}{12}$**
- 11 Work out $\frac{2}{5} + \frac{3}{10}$, in its simplest form. **$\frac{7}{10}$**
- 12 Work out $\frac{3}{4} - \frac{1}{3}$, in its simplest form. **$\frac{5}{12}$**
- 13 Work out $\frac{5}{6} - \frac{1}{4}$, in its simplest form. **$\frac{7}{12}$**
- 14 Work out $\frac{2}{3} \times \frac{3}{5}$, in its simplest form. **$\frac{2}{5}$**

15 Work out $\frac{3}{4} \times \frac{2}{9}$, in its simplest form. $\frac{1}{6}$

16 Work out $\frac{3}{4} \div 3$, in its simplest form. $\frac{1}{4}$

C. Percentages

17 Find 15% of 240. **36**

18 Find 35% of 80. **28**

19 Find 12% of 450. **54**

20 Find 75% of 64. **48**

21 A coat costs £60.00 and is reduced by 20%. What is the new price? **£48.00**

22 A number increased by 25% is 75. What was the number? **60**

23 Which is larger, $\frac{3}{5}$ or 0.62? Show how you know. **0.62 is larger. $\frac{3}{5}$ is 0.6, and 0.62 is bigger than 0.6 by two hundredths.**
