

UNIT 17 Arithmetic: Decimals, Fractions and Percentages

Mental Tests

M 17.1 Standard Route (*no calculator*)

1. Write $\frac{1}{2}$ as a percentage. (50%)
2. Write 20% as a fraction in its simplest form. ($\frac{1}{5}$)
3. Write $\frac{7}{100}$ as a decimal. (0.07)
4. Write 25% as a fraction in its simplest form. ($\frac{1}{4}$)
5. Write 0.47 as a fraction. ($\frac{47}{100}$)
6. Write 0.9 as a fraction. ($\frac{9}{10}$)
7. If 26% of the cars in a car park are red, what percentage are other colours? (74%)
8. Write 0.7 as a percentage. (70%)
9. Calculate 10% of £80. (£8)
10. Calculate 30% of £20. (£6)

M 17.2 Academic Route (*no calculator*)

1. Write $\frac{3}{5}$ as a percentage. (60%)
2. Write 35% as a fraction in its simplest form. ($\frac{7}{20}$)
3. Write $\frac{17}{100}$ as a decimal. (0.17)
4. Write 0.04 as a percentage. (4%)
5. Write 0.48 as a fraction in its simplest form. ($\frac{12}{25}$)
6. Write 0.016 as a fraction in its simplest form. ($\frac{2}{125}$)
7. If 82% of the people in a town own cars, what percentage do *not* own cars? (18%)
8. Write $\frac{11}{20}$ as a percentage. (55%)
9. Calculate 30% of £20. (£6)
10. Calculate 12% of 50 kg. (6 kg)

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M 17.3 Express Route (*no calculator*)

1. Write $\frac{7}{20}$ as a percentage. (35%)
2. Write 64% as a fraction in its simplest form. ($\frac{16}{25}$)
3. Write $\frac{17}{1000}$ as a decimal. (0.017)
4. Write 0.07 as a percentage. (7%)
5. Write 0.024 as a fraction in its simplest form. ($\frac{3}{125}$)
6. If $\frac{4}{5}$ of the people in a school own bikes, what percentage do *not* own bikes? (20%)
7. Write $\frac{17}{20}$ as a percentage. (85%)
8. Write $\frac{7}{40}$ as a decimal. (0.175)
9. Calculate 30% of £120. (£36)
10. Calculate 45% of 20 kg. (9 kg)