

UNIT 4 Fractions and Percentages**Mental Tests**

M 4.1 Standard Route *(no calculator)*

1. What is $\frac{1}{2}$ of 90 ? (45)
 2. What is $\frac{3}{4}$ of 20 ? (15)
 3. What is $\frac{1}{10}$ of 90 ? (9)
 4. What is $\frac{3}{10}$ of 20 ? (6)
 5. Write $\frac{4}{8}$ in its simplest form. ($\frac{1}{2}$)
 6. Write $\frac{6}{9}$ in its simplest form. ($\frac{2}{3}$)
 7. Write $\frac{2}{10}$ in its simplest form. ($\frac{1}{5}$)
 8. Calculate $\frac{1}{5} + \frac{2}{5}$. ($\frac{3}{5}$)
 9. Write 75% as a fraction in its simplest form. ($\frac{3}{4}$)
 10. Write 0.2 as a fraction in its simplest form. ($\frac{1}{5}$)
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UNIT 4 Fractions and Percentages

Mental Tests

M 4.2 Academic Route (*no calculator*)

1. What is $\frac{1}{5}$ of 40 ? (8)
 2. What is $\frac{3}{4}$ of 80 ? (60)
 3. Write $\frac{5}{100}$ in its simplest form. ($\frac{1}{20}$)
 4. Write $\frac{3}{12}$ in its simplest form. ($\frac{1}{4}$)
 5. Calculate $\frac{2}{7} + \frac{3}{7}$. ($\frac{5}{7}$)
 6. Calculate $\frac{1}{2} + \frac{1}{4}$. ($\frac{3}{4}$)
 7. Calculate $\frac{1}{2} - \frac{1}{4}$. ($\frac{1}{4}$)
 8. Write 60% as a fraction in its simplest form. ($\frac{3}{5}$)
 9. Write 0.4 as a fraction in its simplest form. ($\frac{2}{5}$)
 10. Increase £300 by 20%. (£360)
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UNIT 4 Fractions and Percentages

Mental Tests

M 4.3 Express Route (*no calculator*)

1. What is $\frac{2}{5}$ of 90? (36)
 2. What is $\frac{3}{4}$ of $\frac{1}{2}$? ($\frac{3}{8}$)
 3. Write $\frac{14}{49}$ in its simplest form. ($\frac{2}{7}$)
 4. Write $\frac{80}{500}$ in its simplest form. ($\frac{4}{25}$)
 5. Calculate $\frac{7}{9} + \frac{2}{3}$. ($\frac{13}{9} = 1\frac{4}{9}$)
 6. Calculate $\frac{1}{3} - \frac{1}{12}$. ($\frac{3}{12} = \frac{1}{4}$)
 7. Calculate $\frac{1}{3} \times \frac{2}{5}$. ($\frac{2}{15}$)
 8. Write 64% as a fraction in its simplest form. ($\frac{16}{25}$)
 9. Write 0.45 as a fraction in its simplest form. ($\frac{9}{20}$)
 10. Decrease £300 by 15%. (£255)
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