UNIT 9   Fractions and Percentages   Mental Tests

M 9.1 Standard Route *(no calculator)*

1. Calculate $\dfrac{3}{7} + \dfrac{2}{7}$. $(\dfrac{5}{7})$

2. Calculate $\dfrac{3}{4}$ of 20.   (15)

3. Calculate $\dfrac{5}{8}$ of 24.   (15)

4. Calculate 10% of £40.   (£4)

5. Calculate 30% of £200.   (£60)

6. Write $\dfrac{3}{4}$ as a percentage.   (75%)

7. Write $\dfrac{2}{5}$ as a percentage.   (40%)

8. Write 80% as a fraction. $(\dfrac{4}{5})$

9. Write 25% as a fraction. $(\dfrac{1}{4})$

10. Write 46% as a fraction. $(\dfrac{23}{50})$

M 9.2 Academic Route *(no calculator)*

1. Calculate $\dfrac{4}{9} + \dfrac{7}{9}$. $(\dfrac{11}{9} = 1\dfrac{2}{9})$

2. Calculate $\dfrac{1}{3} + \dfrac{1}{2}$. $(\dfrac{5}{6})$

3. Calculate $\dfrac{3}{5}$ of 40.   (24)

4. Calculate $\dfrac{5}{6}$ of 48.   (40)

5. Calculate 20% of £80.   (£16)

6. Calculate 30% of £40.   (£12)

7. Write $\dfrac{3}{5}$ as a percentage.   (60%)

8. Write $\dfrac{6}{25}$ as a percentage.   (24%)

9. Write 72% as a fraction. $(\dfrac{18}{25})$

10. Add 10% to £46.   (£50.60)

UNIT 9 Fractions and Percentages

Mental Tests

M 9.3 Express Route *(no calculator)*

1. Calculate $\dfrac{1}{4} + \dfrac{1}{5}$. $\left(\dfrac{9}{20}\right)$

2. Calculate $\dfrac{3}{4} \times \dfrac{2}{5}$. $\left(\dfrac{3}{10}\right)$

3. Calculate 15% of £20. (£3)

4. Calculate $\dfrac{4}{7}$ of 56. (32)

5. Calculate $\dfrac{3}{8}$ of 64. (24)

6. Calculate 8% of £40. (£3.20)

7. Write $\dfrac{17}{20}$ as a percentage. (85%)

8. Write $\dfrac{7}{25}$ as a percentage. (28%)

9. Add 5% to £200. (£210)

10. Add 15% to £30. (£34.50)