

**UNIT 9** *Fractions and Percentages***Revision Test 9.1**  
(Standard)

1. Calculate:

(a)  $\frac{3}{11} + \frac{7}{11}$

(b)  $\frac{1}{4} + \frac{1}{2}$

(c)  $\frac{3}{5} + \frac{7}{10}$

(d)  $\frac{1}{3} + \frac{1}{4}$

(8 marks)

2. Calculate:

(a)  $\frac{1}{2}$  of 84

(b)  $\frac{3}{4}$  of 32

(4 marks)

3. Write the following percentages as fractions in their simplest form:

(a) 50%

(b) 40%

(c) 15%

(6 marks)

4. Write the following fractions as percentages:

(a)  $\frac{1}{4}$

(b)  $\frac{7}{10}$

(4 marks)

5. Calculate:

(a) 30% of £200,

(b) 25% of £70.

(4 marks)

6. Add 20% to £40.

(2 marks)

7. Add 30% to £50.

(2 marks)

**UNIT 9** *Fractions and Percentages***Revision Test 9.2**  
(Academic)

1. Calculate:

(a)  $\frac{1}{2} + \frac{1}{3}$

(b)  $\frac{3}{4} \times \frac{2}{7}$

(c)  $\frac{3}{5} \div \frac{1}{2}$

(6 marks)

2. Calculate:

(a)  $\frac{3}{5}$  of 70

(b)  $\frac{5}{7}$  of 28.

(4 marks)

3. Write the following percentages as fractions in their simplest form:

(a) 90%

(b) 28%

(4 marks)

4. Write the following fractions as percentages:

(a)  $\frac{7}{20}$

(b)  $\frac{2}{25}$

(4 marks)

5. Calculate:

(a) 35% of £20,

(b) 6% of £820.

(4 marks)

6. Add 40% to £50.

(2 marks)

7. In a sale, prices are reduced by 30%. Calculate the sale price of a pair of boots that normally costs £70.

(3 marks)

8. The price of a computer is £800. Add  $17\frac{1}{2}\%$  VAT to this price.

(3 marks)

**UNIT 9** *Fractions and Percentages***Revision Test 9.3**  
(Express)

1. Calculate:

(a)  $\frac{3}{5} + \frac{4}{7}$

(b)  $\frac{3}{8} \times 1\frac{2}{7}$

(c)  $3\frac{1}{2} \div \frac{2}{5}$

(6 marks)

2. Calculate:

(a)  $\frac{3}{5}$  of £48,

(b)  $\frac{7}{8}$  of 96.

(4 marks)

3. Write  $\frac{3}{20}$  as a percentage.

(2 marks)

4. Write 92% as a fraction in its simplest form.

(2 marks)

5. Calculate:

(a) 26% of £400,

(b) 33% of £40.

(4 marks)

6. Add 35% to £60.

(2 marks)

7. A TV costs £350. In a sale, its price is reduced by 40%. What is the sale price of the TV?

(3 marks)

8. Add  $17\frac{1}{2}\%$  VAT to the price of a cooker, that costs £420 before VAT is added.

(3 marks)

9. In a sale, the price of a book is reduced by 20% to £11.60. What was the original price of the book?

(2 marks)

10. John's salary is increased by 2% to £24 480. What was his original salary?

(2 marks)

## Revision Test 9.1 (Standard)

## Answers

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- |        |                                 |    |           |
|--------|---------------------------------|----|-----------|
| 1. (a) | $\frac{10}{11}$                 | B2 |           |
| (b)    | $\frac{3}{4}$                   | B2 |           |
| (c)    | $\frac{13}{10} = 1\frac{3}{10}$ | B2 |           |
| (d)    | $\frac{7}{12}$                  | B2 | (8 marks) |
| 2. (a) | 42                              | B2 |           |
| (b)    | 24                              | B2 | (4 marks) |
| 3. (a) | $\frac{1}{2}$                   | B2 |           |
| (b)    | $\frac{2}{5}$                   | B2 |           |
| (c)    | $\frac{3}{20}$                  | B2 | (6 marks) |
| 4. (a) | 25%                             | B2 |           |
|        | 70%                             | B2 | (4 marks) |
| 5. (a) | £60                             | B2 |           |
| (b)    | £17.50                          | B2 | (4 marks) |
| 6.     | £48                             | B2 | (2 marks) |
| 7.     | £65                             | B2 | (2 marks) |

**(TOTAL MARKS 30)**

## Revision Test 9.2 (Academic)

## Answers

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- |        |  |       |           |
|--------|--|-------|-----------|
| 1. (a) | $\frac{5}{6}$                          | B2    |           |
| (b)    | $\frac{3}{14}$                         | B2    |           |
| (c)    | $\frac{6}{5} = 1\frac{1}{5}$           | B2    | (6 marks) |
| 2. (a) | 42                                     | B2    |           |
| (b)    | 20                                     | B2    | (4 marks) |
| 3. (a) | $\frac{9}{10}$                         | B2    |           |
| (b)    | $\frac{7}{25}$                         | B2    | (4 marks) |
| 4. (a) | 35%                                    | B2    |           |
|        | 8%                                     | B2    | (4 marks) |
| 5. (a) | £7                                     | B2    |           |
| (b)    | £49.20                                 | B2    | (4 marks) |
| 6.     | £70                                    | B2    | (2 marks) |
| 7.     | $£70 \times \frac{70}{100} = £49$      | M2 A1 | (3 marks) |
| 8.     | $£800 \times \frac{117.5}{100} = £940$ | M2 A1 | (3 marks) |

**(TOTAL MARKS 30)**

## Revision Test 9.3 (Express)

## Answers

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1. (a)  $\frac{41}{35} = 1\frac{6}{35}$  B2
- (b)  $\frac{27}{56}$  B2
- (c)  $8\frac{3}{4}$  B2 (6 marks)
2. (a) £28.80 B2
- (b) 84 B2 (4 marks)
3. 15% B2 (2 marks)
4.  $\frac{23}{25}$  B2 (2 marks)
5. (a) £104 B2
- (b) £13.20 B2 (4 marks)
6.  $£60 \times \frac{135}{100} = £81$  M1 A1 (2 marks)
7.  $£350 \times \frac{60}{100} = £210$  M2 A1 (3 marks)
8.  $£420 \times \frac{117.5}{100} = £493.50$  M2 A1 (3 marks)
9.  $£11.60 \times \frac{100}{80} = £14.50$  M1 A1 (2 marks)
10.  $£24480 \times \frac{100}{98} = £24000$  M1 A1 (2 marks)

**(TOTAL MARKS 30)**