UNIT 4   *Rounding and Estimating*   **Revision Test 4.1** (Standard)

1.   Calculate:

   (a) $18 + 62$ (b) $72 + 189$

   (c) $77 - 58$ (d) 14×3

   (8 marks)

2.   Calculate:

   (a) $3 \times 4 + 6 \times 2$ (b) $8 - 2 \times 3$

   (c) $4 \times (7 - 3) + 4$ (d) $(6 + 8) \div (9 - 2)$

   (8 marks)

3.   Round each of the following numbers to the degree of accuracy stated:

   (a)   4.775   to 1 decimal place,

   (b)   3.624   to 2 decimal places,

   (c)   11 473   to 3 significant figures,

   (d)   23.62   to 2 significant figures,

   (e)   47.75   to 1 decimal place.

   (5 marks)

4.   A can of drink costs 45p. Calculate the total cost of 5 cans of drink.

   (2 marks)

5.   Two brothers earn £18.50 for doing some work for their Dad and they share the money equally between them. How much do they each receive?

   (2 marks)

6.   Three children go swimming and it costs £1.40 for each of them. How much change do they have from a £10 note?

   (3 marks)

7.   What is the cost of 20 notebooks costing 60p each?

   (2 marks)

UNIT 4   *Rounding and Estimating*   **Revision Test 4.2**
                                                                    (Academic)

1.   Calculate:

   (a) $242 + 193$ (b) $3.62 - 1.7$

   (c) 32×7 (d) 0.6×12

                                                                    (8 marks)

2.   Calculate:

   (a) $3 + 9 \div 2 - 1$ (b) $8 \times 4 - 3 \times 6$

   (c) $3 \times 9 - 8 \div 4$ (d) $7 + 3 \div 3 - 2$

                                                                    (8 marks)

3.   Round each of the following numbers to the degree of accuracy stated:

   (a)   6.748   to 2 decimal places,

   (b)   71.87   to 2 significant figures,

   (c)   37 482   to 3 significant figures,

   (d)   8.092   to 1 decimal place,

   (e)   3.4785   to 2 decimal places.

                                                                    (5 marks)

4.   A can of drink costs 45p. Calculate the total cost of 9 cans of drink.

                                                                    (2 marks)

5.   How many tapes costing £9 each can be bought with £65 ?

                                                                    (2 marks)

6.   Estimate the area of a rectangle that has sides of lengths 4.72 m and 8.93 m.

                                                                    (2 marks)

7.   Jamil uses a £5 note to pay for 18 packets of crisps that cost 22p each.
      How much change does he get?

                                                                    (3 marks)

UNIT 4 *Rounding and Estimating*   **Revision Test 4.3**
(Express)

1.   Calculate:

(a) 149×19 (b) $4.73 - 0.92$ (c) 1.4×3.7

(6 marks)

2.   Calculate:

(a) $6 \times 8 - 22 \div 2$ (b) $4 \times 3 \div 2 + 6 \div 3$

(4 marks)

3.   Round each of the following numbers to the degree of accuracy stated:

(a)   45.732   to 3 significant figures,

(b)   0.099   to 1 significant figure,

(c)   476 924   to 1 significant figure,

(d)   3.7092   to 2 decimal places.

(4 marks)

4.   Put brackets into each expression so that it is correct:

(a) $4 + 7 \times 3 = 33$ (b) $36 - 4 \div 1 + 7 = 4$

(3 marks)

5.   Make an estimate for each of the following calculations:

(a) 3.76×1498 (b) $\dfrac{3.72 + 7.62}{4.73 - 3.09}$

(4 marks)

6.   A box of chocolates costs £2.48. Joanna buys 3 boxes of chocolates.
      How much change does she get from a £10 note?

(3 marks)

7.   A coach can carry 52 passengers. How many coaches are needed to carry
      360 passengers? How many spare seats are there?

(3 marks)

8.   Halim posts 29 letters each requiring stamps to the value of 37p. How much
      change does he get from a £20 note?

(3 marks)

Revision Test 4.1 (Standard)   Answers

1. (a) $18 + 62 = 80$ M1 A1

    (b) $189 + 72 = 261$ M1 A1

    (c) $77 - 58 = 19$ M1 A1

    (d) $14 \times 3 = 42$ M1 A1   *(8 marks)*

2. (a) $3 \times 4 + 6 \times 2 = 12 + 12$ M1

                        $= 24$ A1

    (b) $8 - 2 \times 3 = 8 - 6$ M1

                    $= 2$ A1

    (c) $4 \times (7 - 3) + 4 = 4 \times 4 + 4$ M1

                    $= 16 + 4$

                    $= 20$ A1

    (d) $(6 + 8) \div (9 - 2) = 14 \div 7$ M1

                    $= 2$ A1   *(8 marks)*

3. (a)   4.8   B1

    (b)   3.62   B1

    (c)   11 500   B1

    (d)   24   B1

    (e)   47.8   B1   *(5 marks)*

4. $45 \times 5 = 225$;   5 cans cost £2.25.   M1 A1   *(2 marks)*

5. $18.50 \div 2 = 9.25$;   Brothers get £9.25 each.   M1 A1   *(2 marks)*

6. $1.40 \times 3 = 4.20$ B1

    $10.00 - 4.20 = 5.80$ Children will get £5.80 change.   B1 B1   *(3 marks)*

7. $60 \times 20 = 1200$;   20 notebooks cost £12.00.   M1 A1   *(2 marks)*

                                                    (TOTAL MARKS 30)

Revision Test 4.2 (Academic)   Answers

1. (a) $242 + 193 = 435$ M1 A1

   (b) $3.62 - 1.7 = 1.92$ M1 A1

   (c) $32 \times 7 = 224$ M1 A1

   (d) $12 \times 0.6 = 7.2$ M1 A1   *(8 marks)*

2. (a) $3 + 9 \div 2 - 1 = 3 + 4\frac{1}{2} - 1$ M1

   $= 6\frac{1}{2}$ A1

   (b) $8 \times 4 - 3 \times 6 = 32 - 18$ M1

   $= 14$ A1

   (c) $3 \times 9 - 8 \div 4 = 27 - 2$ M1

   $= 25$ A1

   (d) $7 + 3 \div 3 - 2 = 7 + 1 - 2$ M1

   $= 6$ A1   *(8 marks)*

3. (a)   6.75   B1

   (b)   72   B1

   (c)   37 500   B1

   (d)   8.1   B1

   (e)   3.48   B1   *(5 marks)*

4. $45 \times 9 = 405$;   9 cans cost £4.05.   M1 A1   *(2 marks)*

5. $65 \div 9 = 7$ Remainder 2;   7 tapes can be bought. M1 A1   *(2 marks)*

6. $5 \text{ m} \times 9 \text{ m} = 45 \text{ m}^2$ M1 A1   *(2 marks)*

7. $18 \times 22 = 396$ B1

   $500 - 396 = 104$ Jamil will get £1.04 change.   B1 B1   *(3 marks)*

                                                          (TOTAL MARKS 30)

Revision Test 4.3 (Express) — Answers

1. (a) $149 \times 19 = 2831$ — M1 A1

    (b) $4.73 - 0.92 = 3.81$ — M1 A1

    (c) $1.4 \times 3.7 = 5.18$ — M1 A1 *(6 marks)*

2. (a) $6 \times 8 - 22 \div 2 = 48 - 11$ — M1
        $= 37$ — A1

    (b) $4 \times 3 \div 2 + 6 \div 3 = 6 + 2$ — M1
        $= 8$ — A1 *(4 marks)*

3. (a) 45.7 — B1

    (b) 0.1 — B1

    (c) $500\,000$ — B1

    (e) 3.71 — B1 *(4 marks)*

4. (a) $(4 + 7) \times 3 = 33$ — B1

    (b) $(36 - 4) \div (1 + 7) = 4$ — M1 A1 *(3 marks)*

5. (a) $4 \times 1000 = 4000$ — M1 A1

    (b) $\dfrac{4 + 8}{5 - 3} = 6$ — M1 A1 *(4 marks)*

6. $2.48 \times 3 = 7.44$ — B1

    $10.00 - 7.44 = 2.56$ Joanne will get £2.56 change. — B1 B1 *(3 marks)*

7. $360 \div 52 = 6$ Remainder 48 — M1

    $52 - 48 = 4$

    7 coaches and 4 spare seats — A1 A1 *(3 marks)*

8. $37\text{p} \times 29 = 1073\text{p}$ — M1
        $= £10.73$

    $£20.00 - £10.73 = £9.27$ change — M1 A1 *(3 marks)*

(TOTAL MARKS 30)