

## UNIT 4 Rounding and Estimating

## Mental Tests

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### M 4.1 Standard Route *(no calculator)*

Calculate:

- $18 + 7$  (25)
    - $28 - 15$  (13)
    - $4 \times 9$  (36)
    - $8 \times 6$  (48)
    - $0.2 + 1.3$  (1.5)
  - Round 3.45 to 1 decimal place. (3.5)
  - Round 4.65 to 1 decimal place. (4.7)
  - Round 463 to 1 significant figure. (500)
  - A box of matches costs 6p. What is the total cost of 20 boxes of matches? (£1.20)
  - A packet of sweets costs 22p. How much do 3 packets cost altogether? (66p)
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### M 4.2 Academic Route *(no calculator)*

Calculate:

- $44 - 29$  (15)
    - $66 + 18$  (84)
    - $8 \times 9$  (72)
    - $4.7 + 0.22$  (4.92)
    - $3.6 - 0.01$  (3.59)
  - Round 4.65 to 1 decimal place. (4.7)
  - Round 1475 to 2 significant figures. (1500)
  - Round 0.089 to 1 significant figure. (0.09)
  - A packet of crisps costs 21p. What is the total cost of 5 packets of crisps? (£1.05)
  - A fairground ride costs 60p a ride. How many rides can you have for £3 ? (5)
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### M 4.3 Express Route *(no calculator)*

Calculate:

1. (a)  $104 - 87$  (17)
  - (b)  $94 + 69$  (163)
  - (c)  $0.8 \times 0.9$  (0.72)
  - (d)  $4.5 - 0.02$  (4.48)
  - (e)  $1.2 \times 0.4$  (0.48)
  2. Round 0.0047 to 1 significant figure. (0.005)
  3. Round 1.945 to 1 significant figure. (2)
  4. Round 0.0967 to 2 decimal places. (0.10)
  5. Estimate the cost of 1147 tickets that cost £2.25 each. (£2500)
  6. Estimate how many bars of chocolate costing 42p each can be bought with £10. (25)
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