

UNIT 6 Arithmetic: Multiplication of Decimals

Mental Tests

M 6.1 Standard Route *(no calculator)*

1. 6×2 (12)
2. 7×3 (21)
3. 4×5 (20)
2. 10×8 (80)
5. Is this statement true or false: $3 \times 8 = 8 \times 3$? (true)
6. James gets £2 per week pocket money. How much does he get in 4 weeks? (£8)
7. It costs £3 each for children to visit an aquarium.
How much will it cost in total for 5 children? (£15)
8. An office block has 7 floors. There are 3 windows on each floor.
How many windows are there altogether? (21)
9. 100×6 (600)
10. Tickets to a school play cost £2 each. A school sells 100 tickets.
How much money does the school get? (£200)

M 6.2 Standard Route *(no calculator)*

1. 3×7 (21)
2. 8×4 (32)
3. 7×9 (63)
4. 100×91 (9100)
5. Is this statement true or false: $3 \times 14 = 22 \times 2$? (false)
6. Miles gets £7 per week pocket money.
How much does he get in 8 weeks? (£56)
7. A theatre ticket for an adult costs £6.
How much will it cost to buy tickets for 5 adults? (£30)
8. A train has 7 coaches. There are 10 windows in each coach.
How many windows are there altogether? (70)
9. 30×50 (1500)
10. Tickets to a museum cost £4 each. On one day, 100 tickets were sold.
How much money did the museum take? (£400)

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M 6.3 Standard Route (*no calculator*)

- Joshua spends 30p each day on sweets.
How much does he spend on sweets in 5 days? (£1.50 or 150p)
- If there are 4 legs on every chair, how many legs are there on 9 chairs? (36)
- 0.5×10 (5)
- 10×2.4 (24)
- 0.12×100 (12)
- 1.3×100 (130)
- 3×0.6 (1.8)
- 0.2×0.7 (0.14)
- A meal costs £3.50. Find the cost of 4 meals. (£14)
- 127×2 (254)

M 6.4 Standard Route (*no calculator*)

- Mary spends 40p each day on sweets.
How much does she spend on sweets in 5 days? (£2 or 200p)
- If there are 5 legs on every chair, how many legs are there on 11 chairs? (55)
- 0.4×10 (4)
- 10×1.9 (19)
- 0.27×100 (27)
- 2.9×100 (290)
- 4×0.3 (1.2)
- 0.4×7 (2.1)
- A book costs £4.50. Find the cost of 4 books. (£18)
- 261×2 (522)

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M 6.5 Academic and Express Route *(no calculator)*

1. 7×9 (63)
2. 8×6 (48)
2. 6×7 (42)
4. 8.2×1000 (8200)
5. A train ticket costs £9.50. Samantha buys 5 tickets each week.
How much does she spend on tickets in a week? (£47.50)
6. 497×2 (994)
7. 362×3 (1086)
8. A meal costs £3.99. What is the total cost of 6 meals? (£23.94)
9. 0.8×0.4 (0.32)
10. 0.3×1.2 (0.36)

M 6.6 Academic and Express Route *(no calculator)*

1. 2.39×100 (239)
2. 1000×4.97 (4970)
3. 30×16 (480)
4. 0.4×0.9 (0.36)
5. 6×1.2 (7.2)
6. Cloth costs £1.20 per metre. Find the cost of 7 m. (£8.40)
7. A box of chocolate bars contains 8 layers with 12 boxes in each layer.
How many bars are there in the box? (96)
8. A shop sells 20 books costing £2.48 each.
How much money does the shop get for the books? (£49.60)
9. If $35 \times 48 = 1680$, what is
 - (a) 3.5×4.8 , (16.80)
 - (b) 0.35×48 ? (16.80)