

UNIT 8 Arithmetic: Division of Decimals

Mental Tests

M 8.1 Standard Route *(no calculator)*

1. Find:
 - (a) $8 \div 2$ (4)
 - (b) $15 \div 5$ (3)
 - (c) $32 \div 2$ (16)
2. £20 is shared equally between 4 children. How much do they each get? (£5)
3. A packet of sweets costs 20p. How many packets can you buy with 80p? (4)
4. There are 12 marbles in a bag. Two children share out a bag of marbles equally between them.
How many marbles do they each get? (6)
5. Tickets for a disco cost £3 each. Alison spends £12 on disco tickets.
How many tickets does she buy? (4)
6. Find:
 - (a) $2000 \div 10$ (200)
 - (b) $420 \div 10$ (42)
 - (d) $3200 \div 100$ (32)

M 8.2 Standard Route *(no calculator)*

1. Find:
 - (a) $10 \div 2$ (5)
 - (b) $12 \div 4$ (3)
 - (c) $20 \div 5$ (4)
2. Two brothers share 30 sweets equally between them.
How many sweets do they each get? (15)
3. Four packets cost 60p. How much does one packet cost? (15p)
4. £30 is to be shared equally between 6 children. How much do they each get? (£5)
5. Tickets for a concert cost £2 each. Mary spends £16 on tickets.
How many tickets does she buy? (8)
6. Find:
 - (a) $3000 \div 10$ (300)
 - (b) $5000 \div 100$ (50)
 - (c) $370 \div 10$ (37)

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M 8.3 Academic Route *(no calculator)*

1. Find:
 - (a) $18 \div 2$ (9)
 - (b) $45 \div 9$ (5)
 - (c) $28 \div 4$ (7)
 - (d) $42 \div 6$ (7)
2. Four packets of sweets cost 60p. How much does one packet cost? (15p)
3. £56 is to be shared equally between 7 children. How much do they each get? (£8)
4. Batteries cost 50p each. How many could you buy with £8.50? (17)
5. Find:
 - (a) $340 \div 10$ (34)
 - (b) $841 \div 10$ (84.1)
 - (c) $2.4 \div 10$ (0.24)

M 8.4 Academic Route *(no calculator)*

1. Find:
 - (a) $14 \div 2$ (7)
 - (b) $24 \div 3$ (8)
 - (c) $64 \div 8$ (8)
 - (d) $24 \div 6$ (4)
2. £30 is shared equally between 4 children. How much do they each get? (£7.50)
3. A packet contains 14 sweets. They are shared between 4 children.
How many sweets are left over if all the children get the same number of sweets? (2)
4. Melons cost 60p each. How many can you buy with £3.60? (6)
5. Find:
 - (a) $420 \div 10$ (42)
 - (b) $841 \div 10$ (84.1)
 - (c) $0.8 \div 10$ (0.08)

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M 8.5 Express Route (*no calculator*)

1. Find:
 - (a) $35 \div 7$ (5)
 - (b) $81 \div 9$ (9)
 - (c) $84 \div 4$ (21)
 - (d) $93 \div 3$ (31)
2. What is the remainder when 325 is divided by 3? (1)
3. Books cost £7 each. How many books can you buy with £80? (11)
4. Calculate $187 \div 17$ (11)
5. Find:
 - (a) $348 \div 1000$ (0.348)
 - (b) $0.84 \div 10$ (0.084)
 - (c) $18 \div 200$ (0.09)

M 8.6 Express Route (*no calculator*)

1. Find:
 - (a) $56 \div 7$ (8)
 - (b) $72 \div 9$ (8)
 - (c) $88 \div 4$ (22)
 - (d) $69 \div 3$ (23)
2. Sweets have a mass of 12 grams each.
How many sweets are there in a 132 gram bag? (11)
3. Packets of pins cost 24p each. How many packets can you buy with £5? (20)
4. Calculate $264 \div 12$ (22)
5. Find:
 - (a) $276 \div 100$ (2.76)
 - (b) $0.84 \div 10$ (0.084)
 - (c) $18 \div 200$ (0.09)