

Short division using factors

Section A

Calculate by splitting the divisor into factors.
For example $255 \div 15 = 255 \div 5 \div 3$

So, $255 \div 5 = 51$ and $51 \div 3 = 17$

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|----|---------------|-----|----------------|-----|-------------------|
| 1. | $180 \div 12$ | 8. | $60 \div 15$ | 15. | $£45.60 \div 12$ |
| 2. | $42 \div 14$ | 9. | $360 \div 30$ | 16. | $£147.20 \div 16$ |
| 3. | $240 \div 20$ | 10. | $144 \div 24$ | 17. | $£73.50 \div 21$ |
| 4. | $400 \div 25$ | 11. | $240 \div 40$ | 18. | $£34.95 \div 15$ |
| 5. | $80 \div 16$ | 12. | $285 \div 15$ | 19. | $£154.20 \div 30$ |
| 6. | $147 \div 21$ | 13. | $108 \div 27$ | 20. | $£31.90 \div 22$ |
| 7. | $72 \div 18$ | 14. | $2300 \div 50$ | 21. | $£130.25 \div 25$ |

Section B

Calculate by splitting the divisor into factors:

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|----|----------------|-----|-------------------|-----|------------------|
| 1. | $7896 \div 14$ | 8. | $£466.56 \div 72$ | 15. | $140.88 \div 24$ |
| 2. | $2784 \div 32$ | 9. | $£222.48 \div 36$ | 16. | $282.48 \div 88$ |
| 3. | $2394 \div 42$ | 10. | $£201.32 \div 28$ | 17. | $351.54 \div 54$ |
| 4. | $4096 \div 64$ | 11. | $£351.12 \div 56$ | 18. | $124.25 \div 35$ |
| 5. | $5994 \div 81$ | 12. | $£263.34 \div 21$ | 19. | $294.3 \div 90$ |
| 6. | $4635 \div 45$ | 13. | $£504 \div 48$ | 20. | $221.4 \div 18$ |
| 7. | $4704 \div 49$ | 14. | $£179.55 \div 27$ | 21. | $949.35 \div 15$ |

Section C

Calculate by splitting the divisor into two or more factors:

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|----|-------------------|-----|-------------------|-----|--------------------|
| 1. | $8928 \div 72$ | 8. | $4480 \div 128$ | 15. | $3596.88 \div 56$ |
| 2. | $7872 \div 64$ | 9. | $8235 \div 135$ | 16. | $282.48 \div 88$ |
| 3. | $9801 \div 99$ | 10. | $1995 \div 105$ | 17. | $5140.8 \div 54$ |
| 4. | $6897 \div 121$ | 11. | $10,080 \div 160$ | 18. | $4149.81 \div 63$ |
| 5. | $10,080 \div 120$ | 12. | $324 \div 108$ | 19. | $6614.4 \div 64$ |
| 6. | $10,692 \div 81$ | 13. | $4144 \div 112$ | 20. | $10,288.8 \div 48$ |
| 7. | $18,172 \div 77$ | 14. | $8352 \div 144$ | 21. | $1979.34 \div 66$ |

Short division using factors - ANSWERS

Section A

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|-------|--------|-----------|
| 1. 15 | 8. 4 | 15. £3.80 |
| 2. 3 | 9. 12 | 16. £9.20 |
| 3. 12 | 10. 6 | 17. £3.50 |
| 4. 16 | 11. 6 | 18. £2.33 |
| 5. 5 | 12. 19 | 19. £5.14 |
| 6. 7 | 13. 4 | 20. £1.45 |
| 7. 4 | 14. 46 | 21. £5.21 |

Section B

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|--------|------------|-----------|
| 1. 564 | 8. £6.48 | 15. 5.87 |
| 2. 87 | 9. £6.18 | 16. 3.21 |
| 3. 57 | 10. £7.19 | 17. 6.51 |
| 4. 64 | 11. £6.27 | 18. 3.55 |
| 5. 74 | 12. £12.54 | 19. 3.27 |
| 6. 103 | 13. £10.50 | 20. 12.3 |
| 7. 96 | 14. £6.65 | 21. 63.29 |

Section C

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|--------|--------|------------|
| 1. 124 | 8. 35 | 15. 64.23 |
| 2. 123 | 9. 61 | 16. 3.21 |
| 3. 99 | 10. 19 | 17. 95.2 |
| 4. 57 | 11. 63 | 18. 65.87 |
| 5. 84 | 12. 3 | 19. 103.35 |
| 6. 132 | 13. 37 | 20. 214.35 |
| 7. 236 | 14. 58 | 21. 29.99 |