

REVERSE PERCENTAGES

Task 1 (Non-calculator)

- 1) 15% of a number is 9. What is the number?
- 2) 25% of a number is 12. What is the number?
- 3) 40% of a number is 36. What is the number?
- 4) 60% of a number is 48. What is the number?
- 5) 5% of a number is 7. What is the number?
- 6) 80% of a number is 56. What is the number?
- 7) 12% of a number is 18. What is the number?
- 8) 70% of a number is 35. What is the number?

Task 2 (Non-calculator)

- 9) A bill has increased by 20% and now costs £72. What was the original cost of the bill?
- 10) A bicycle was reduced in price by 25% to £180. What was the original price of the bicycle?
- 11) A cinema ticket price increased by 15% to £11.50. What was the original ticket price?
- 12) After a 10% discount, a shirt cost £27. What was the original price of the shirt?
- 13) A school trip fee rose by 20%. The increase was £8. What was the original trip fee?
- 14) A laptop was reduced by 30% to £560. What was the original price of the laptop?
- 15) After a 12% increase, a train ticket now costs £33.60. What was the original ticket cost?
- 16) A mobile phone contract was reduced by 40% to £18 a month. What was the original cost of the phone contract?
- 17) A TV went on sale with 15% off and cost £425. What was the original price of the TV?

Task 3 (Calculator)

- 18) The price of a laptop increased by 17% to £234. Find the original price of the laptop.
- 19) After a 28% discount, a table cost £342. Find the original price of the table.
- 20) An investment grew by 45% to £2,174. Find the starting value of the investment.
- 21) After a 63% drop, the value of shares is £814. Find the original value of the shares.
- 22) A club membership rose by 6.5% to £215. Find the original fee of the membership.

Challenge (Calculator)

- 23) A TV was reduced by 15% in a summer sale, then reduced by another 10% in a clearance sale. The final price was £459. What was the original price of the TV?
- 24) A phone increased in price by 8%, then again by 12%. The final price was £605.76. What was the original price of the phone?
- 25) A jacket was reduced by 25%, then an extra £15 off voucher was applied. The final price was £60. What was the original price?
- 26) A laptop increased in price by 30% over 2 years. The first year it increased by 12%. What was the percentage increase in the second year if the original price was £500? Give your answer to two decimal places.