

# PERCENTAGE MULTIPLIERS

## Task 1

- 1) Write the multiplier for 38%
- 2) Write the multiplier for 12%
- 3) Write the multiplier for 85%
- 4) Write the multiplier for 100%
- 5) Write the multiplier for 60%
- 6) Write the multiplier for 25%
- 7) Write the multiplier for 75%
- 8) Write the multiplier for 5%
- 9) Write the multiplier for 10%
- 10) Write the multiplier for 20%
- 11) Write the multiplier for 99%
- 12) Write the multiplier for 1%
- 13) Write the multiplier for 11.5%
- 14) Write the multiplier for 2.5%
- 15) Write the multiplier for 3.25%

## Task 2

- 16) Work out the multiplier to increase by 15%
- 17) Work out the multiplier to increase by 20%
- 18) Work out the multiplier to increase by 50%
- 19) Work out the multiplier to increase by 5%
- 20) Work out the multiplier to increase by 80%
- 21) Work out the multiplier to increase by 2%
- 22) Work out the multiplier to increase by 67%
- 23) Work out the multiplier to increase by 100%
- 24) Work out the multiplier to increase by 0.5%
- 25) Work out the multiplier to increase by 33%
- 26) Work out the multiplier to increase by 60%
- 27) Work out the multiplier to increase by 1.5%
- 28) Work out the multiplier to increase by 200%
- 29) Work out the multiplier to increase by 13.5%
- 30) Work out the multiplier to increase by 0.75%

### Task 3

- 31) Work out the multiplier to decrease by 15%
- 32) Work out the multiplier to decrease by 25%
- 33) Work out the multiplier to decrease by 40%
- 34) Work out the multiplier to decrease by 60%
- 35) Work out the multiplier to decrease by 10%
- 36) Work out the multiplier to decrease by 46%
- 37) Work out the multiplier to decrease by 5%
- 38) Work out the multiplier to decrease by 1%
- 39) Work out the multiplier to decrease by 0.5%
- 40) Work out the multiplier to decrease by 33%
- 41) Work out the multiplier to decrease by 70%
- 42) Work out the multiplier to decrease by 90%
- 43) Work out the multiplier to decrease by 21.5%
- 44) Work out the multiplier to decrease by 4.35%
- 45) Work out the multiplier to decrease by 100%

### Task 4

- 46) A coat costs £80. The cost is reduced by 25%. What is the sale price?
- 47) A bike costs £300. The price increases by 10%. What is the new price?
- 48) A TV costs £500. The cost is reduced by 15%. What is the new price?
- 49) A computer costs £900. The price increases by 20%. What is the new price?
- 50) A bag was £40. It is reduced by 10%, then another 20%. What is the final price?

- 51) A phone costs £600. A 25% discount is applied, then 5% VAT is added to the discounted price. What is the final price?
- 52) A sofa costs £1000. It goes up by 15%, then down by 10%. What is the final price?
- 53) A concert ticket costs £50. There's a 20% discount for students. A 10% booking fee is then added to the discounted price. What is the final ticket price for a student?
- 54) A holiday package is £1200. The package increases by 5%, then decreases by 10%. What is the final price of the holiday package?
- 55) A printer costs £250. The cost is reduced by 12%, and a £20 voucher is then applied to the discounted price. What is the final price of the printer?

### Challenge

- 56) A product price is increased by 10%, then decreased by 10%. Is the final price the same as the original? Justify your answer.
- 57) A company makes £50,000 in revenue. Costs rise by 8%, and profits fall by 12%. If the original profit was 30% of revenue, what is the new profit?
- 58) A £2000 investment grows by 12% in year one, 10% in year two, and  $x\%$  in year three. If the total value after three years is £2661.12, work out the value of  $x$ .