

Percentages: Non-calculator questions — Answer Key

- Q1.** (a) 51%
(b) 0.51
(c) $\frac{51}{100}$
- Q2.** (a) $0.4 = 40\%$
(b) $0.06 = 6\%$
(c) $1.25 = 125\%$
(d) $45\% = 0.45$
(e) $7\% = 0.07$
(f) $130\% = 1.3$
- Q3.** (a) Neon: 36%
(b) Jungle: 10%
(c) 54%; yes, Ravi is right.
- Q4.** (a) 25
(b) 3
(c) 28
- Q5.** (a) Sale price: £36
(b) New price: £40
- Q6.** (a) Original price: £60
(b) Membership before the rise: £70 per month
- Q7.** VAT: £11.20
- Q8.** Cold drinks sold: 108
- Q9.** No. A 20% increase followed by a 20% decrease leaves the price at 96% of the original; for example, £100 becomes £120 and then £96.
- Q10.** (a) Shop A: £56; Shop B: £52. Shop B is cheaper by £4.
(b) One possible third offer: 20% off, then £15 off. This gives £49, which is cheaper than both shops and is more than half price.
(c) £160 (both shops would charge £112)