# Percentage Change

**1**

Increase £80 by 35%.

£80 (Original) → × 1.35 → (New)

Multiplier: 100% + 35% = 135% = 1.35

New amount: £80 × 1.35 = ____

**Answer** _____

**2**

Decrease £240 by 15%.

£240 (Original) → × 0.85 → (New)

Multiplier: 100% − 15% = 85% = 0.85

New amount: ____ × ____ = ____

**Answer** _____

**3**

A coat costs £86. In a sale, the price is reduced by 30%. Work out the sale price.

£86 (Original) → × → (New)

Multiplier: 100% − 30% = ____ = ____

New amount: ____ × ____ = ____

**Answer** _____

**4**

A rent of £315 a month goes up by 8%. Work out the new rent.

£315 (Original) → × → (New)

Multiplier: _____

New amount: _____

**Answer** _____

**5**

The price of a game goes up from £48 to £60. Work out the percentage increase.

£48 (Original) → + £12 → £60 (New)

Change: £60 − £48 = £12

÷ original: ____ ÷ ____ × 100 = ____

**Answer** _____

**6**

A bus fare goes down from £2.50 to £2.20. Work out the percentage decrease.

£2.50 (Original) → − → £2.20 (New)

Change: ____ − ____ = ____

÷ original: ____ ÷ ____ × 100 = ____

**Answer** _____

**7**

A concert ticket goes up from £40 to £50. Jamal works out 10 ÷ 50 × 100 = 20%.
Explain his mistake, then work out the right percentage increase.

_____

_____

_____

**Answer** _____

**8**

Zara buys a phone case for £8 and sells it for £11. Work out her percentage profit.

_____

_____

**Answer** _____

# Percentage Change *further practice*

**9**

Increase £1250 by 4.5%.

**Answer** _____

**10**

Write the multiplier for each change.
a) an increase of 9%
b) a decrease of 9%
c) an increase of 120%
d) a decrease of 2.5%

**a)** _____

**b)** _____

**c)** _____

**d)** _____

**11**

The number of people living in a village falls from 3200 to 2720. Work out the percentage decrease.

**Answer** _____

**12**

A season ticket goes up from £395 to £425. Work out the percentage increase. Give your answer to 1 decimal place.

**Answer** _____

**13**

The same jacket is on sale in two shops.
Shop A: £64 with 15% off. Shop B: £58 with 5% off. Which shop is cheaper, and by how much?

**Answer** _____

**14**

A price of £50 goes up by 20%.
Then the new price goes down by 20%.
Ola says the price is back to £50.
Is she right? Show how you know.

**Answer** _____

**15**

Leah buys a bike for £340. A year later she sells it for £255. Work out her percentage loss.

**Answer** _____

**16**

Ben's pay goes up from £9.50 to £10.26 an hour. Ana's pay goes up from £11 to £11.77 an hour. Ana's pay went up by more money. Who had the bigger percentage increase?

**Answer** _____