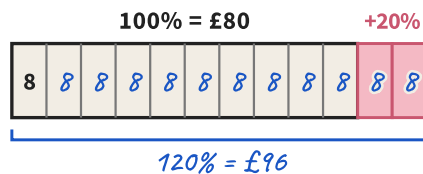


Percentage Increase and Decrease

ANSWERS

1

Increase £80 by 20%.



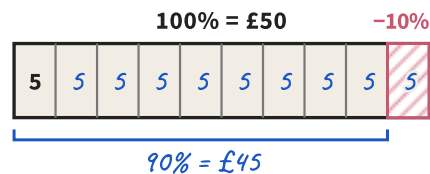
$$10\% = 80 \div 10 = 8$$

$$20\% = 8 \times 2 = 16$$

$$120\% = 80 + 16 = 96$$

2

Decrease £50 by 10%.



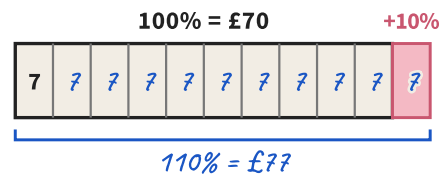
$$10\% = 50 \div 10 = 5$$

$$10\% = 5 \times 1 = 5$$

$$90\% = 50 - 5 = 45$$

3

Increase £70 by 10%.



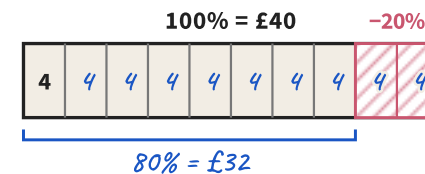
$$10\% = 70 \div 10 = 7$$

$$10\% = 7 \times 1 = 7$$

$$110\% = 70 + 7 = 77$$

4

Decrease £40 by 20%.



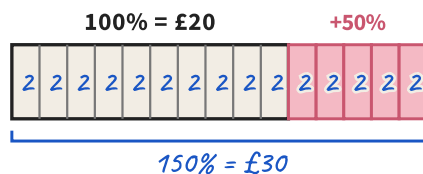
$$10\% = 40 \div 10 = 4$$

$$20\% = 4 \times 2 = 8$$

$$80\% = 40 - 8 = 32$$

5

Increase £20 by 50%.



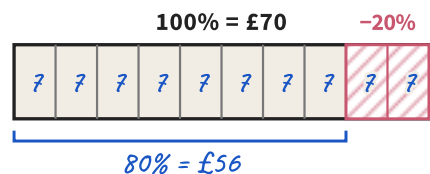
$$10\% = 20 \div 10 = 2$$

$$50\% = 2 \times 5 = 10$$

$$150\% = 20 + 10 = 30$$

6

Decrease £70 by 20%.



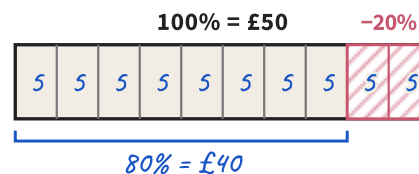
$$10\% = 70 \div 10 = 7$$

$$20\% = 7 \times 2 = 14$$

$$80\% = 70 - 14 = 56$$

7

A coat costs £50. In a sale, the price goes down by 20%. What is the sale price?



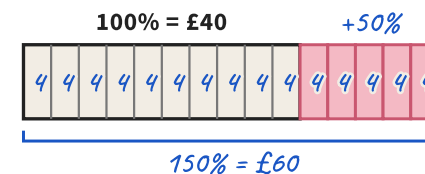
$$10\% = 50 \div 10 = 5$$

$$20\% = 5 \times 2 = 10$$

$$80\% = 50 - 10 = 40$$

8

£40 goes up. The bar shows the increase. What is the new amount?



$$10\% = 40 \div 10 = 4$$

$$50\% = 4 \times 5 = 20$$

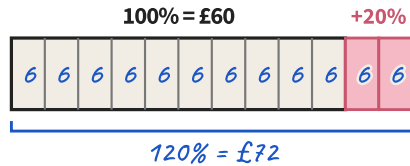
$$150\% = 40 + 20 = 60$$

Percentage Increase and Decrease *further practice*

ANSWERS

9

Increase £60 by 20%.



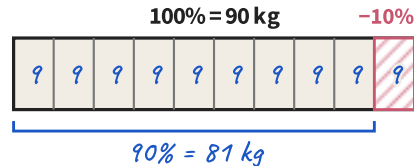
$$10\% = 60 \div 10 = 6$$

$$20\% = 6 \times 2 = 12$$

$$120\% = 60 + 12 = 72$$

10

Decrease 90 kg by 10%.



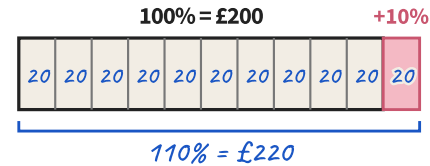
$$10\% = 90 \div 10 = 9$$

$$10\% = 9 \times 1 = 9$$

$$90\% = 90 - 9 = 81$$

11

Increase £200 by 10%.



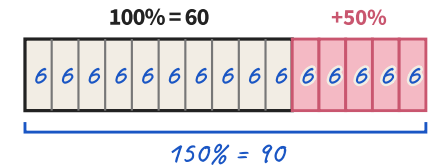
$$10\% = 200 \div 10 = 20$$

$$10\% = 20 \times 1 = 20$$

$$110\% = 200 + 20 = 220$$

12

A club has 60 members.
The number of members goes up by 50%. How many are there now?



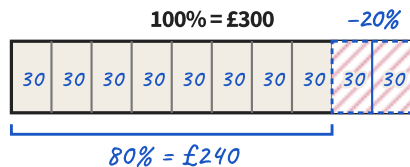
$$10\% = 60 \div 10 = 6$$

$$50\% = 6 \times 5 = 30$$

$$150\% = 60 + 30 = 90$$

13

A TV costs £300. In a sale, the price goes down by 20%. What is the sale price?



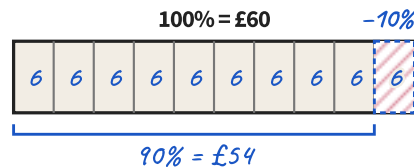
$$300 \div 10 = 30, 30 \times 2 = 60$$

$$300 - 60 = 240$$

Answer £240

14

A bag costs £60. Shop A takes 10% off. Shop B takes £5 off. Which shop is cheaper?



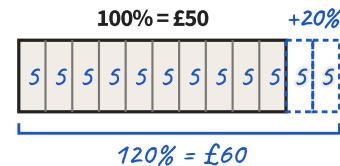
$$A: 60 \div 10 = 6, 60 - 6 = £54$$

$$B: 60 - 5 = £55$$

Answer Shop A

15

A price goes up from £50 to £60. What is the percentage increase?



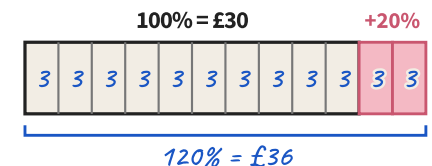
$$10\% = 50 \div 10 = 5$$

it goes up 10, that is 2 parts

Answer 20%

16

Ali increases £30 by 20%. He writes $30 + 20 = 50$. What has he done wrong?



Ali should add 20%, not 20

Right answer $30 + 6 = £36$