

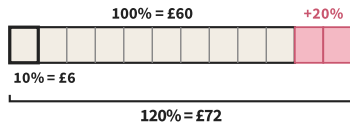
Percentage Increase and Decrease

ANSWERS 

1

Increase £60 by 20%.

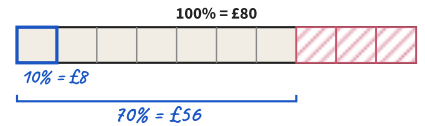
Split 100% into equal parts, find one part, then add 20%.



Answer £72

2

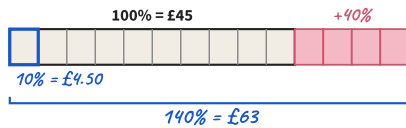
Decrease £80 by 30%.



Answer £56

3

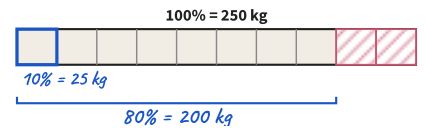
Increase £45 by 40%.



Answer £63

4

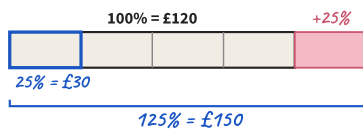
Decrease 250 kg by 20%.



Answer 200 kg

5

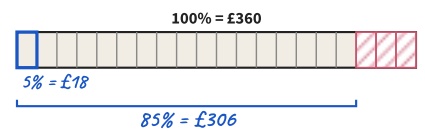
Increase £120 by 25%.



Answer £150

6

Decrease £360 by 15%.



Answer £306

7

A £240 bike is reduced by 15% in a sale. Then the sale price goes up by 15%. Is it back to £240? Show how you know.

$$240 \times 0.85 = 204, \text{ then } 204 \times 1.15$$

Answer No: £234.60

8

Which multiplier increases an amount by 7%? 1.7 1.07 0.07

$$100\% + 7\% = 107\%$$

Answer 1.07

Percentage Increase and Decrease *further practice*

ANSWERS 

9

Decrease £85 by 35%.

$$£85 \times 0.65$$

Answer £55.25

10

Increase £320 by 17.5%.

$$£320 \times 1.175$$

Answer £376

11

Write down the multiplier for

a 9% increase 1.09

a 9% decrease 0.91

a 90% decrease 0.1

12

A train ticket costs £48. The price goes up by 4%. What is the new price of the ticket?

$$£48 \times 1.04$$

Answer £49.92

13

A 750 ml bottle of shampoo now comes with 20% extra free. How much shampoo is in the bottle now?

$$750 \times 1.2$$

Answer 900 ml

14

Shop A sells a TV for £360 with 15% off. Shop B sells the same TV for £330 with 5% off. Which shop is cheaper, and by how much?

$$A: £306, B: £313.50$$

Answer Shop A, by £7.50

15

A café usually sells 400 coffees a day. On Monday it sells 15% more coffees than usual. On Tuesday it sells 15% fewer coffees than usual. How many more coffees does it sell on Monday than on Tuesday?

$$400 \times 1.15 = 460, 400 \times 0.85 = 340$$

Answer 120

16

Sara says that to decrease an amount by 30%, you multiply it by 0.3. Is Sara right? Explain, using £50.

$$£50 \times 0.3 = £15 \text{ is } 30\% \text{ of } £50$$

Answer No, multiply by 0.7: £35