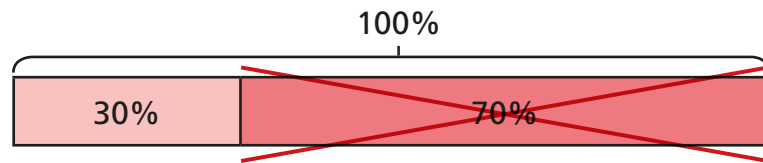


Percentage decrease with a multiplier



- 1 This bar model shows a decrease of 70%.



Complete the bar models to show the given decreases, and state the remaining percentage.

a) decrease by 20%

percentage remaining = %

b) decrease by 58%

percentage remaining = %

c) decrease by 42%

percentage remaining = %

d) decrease by 86%

percentage remaining = %

- 2 a) Convert these percentages to decimals.

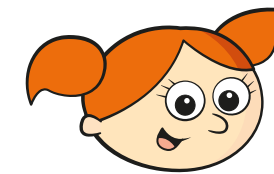
60%	6%	16%	16.5%	41.5%
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- b) Convert these decimals to percentages.

0.08	0.8	0.23	0.235	0.625
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 3 In a sale, the price of a game costing £60 is reduced by 35%.

- a)



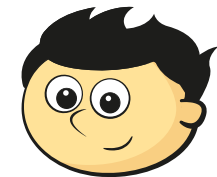
To find the sale price,
I'm going to work out 35% of
£60 and take the answer away
from £60

Use Alex's method to find the sale price of the game, showing your calculations.

sale price = £

- b)

100% – 35% = 65%,
so to find the sale price
I'm going to work out
65% of £60



Use Jack's method to find the sale price of the game, showing your calculations.

sale price = £

Whose method do you prefer? _____

Explain your reasoning.

- 4 Match the decreases to the percentage remaining and the corresponding decimal.

The first one has been done for you.

decrease	% remaining	decimal remaining
20%	70%	0.16
45%	45%	0.8
30%	55%	0.55
84%	80%	0.7
55%	16%	0.45

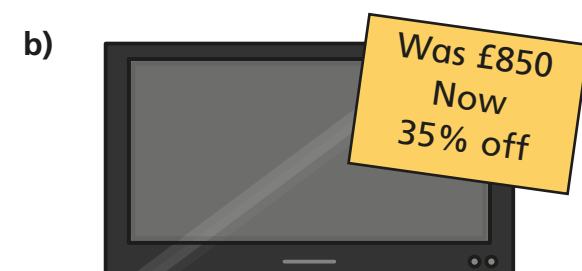
- 5 Find the sale price of these items.



sale price = £



sale price = £



sale price = £

- 6 The number of fish in a large lake is decreasing by 15% each year. In 2016, there were 120,000 fish in the lake. How many fish were there in the lake in 2017, 2018 and 2019?

2017

2018

2019

- 7 Aisha is buying a laptop worth £1,200 in a sale. All prices have been reduced by 35%. She gets an extra 10% student discount off the sale price. How much does Aisha pay for the laptop?

£

- 8 A new car loses 20% of its value in the first year and 16% of its new value every year after that.

a) Huan thinks that three years after being bought new, the car will have lost 52% of its value. Is Huan correct?

b) Work out the percentage of the original value of the car that has been lost after three years.

percentage loss after three years = %