

a)
In a storm 144 fruit trees were left standing out of 180 fruit trees in an orchard. What is the percentage decrease in the number of trees?

New value	144
Old value	180
To find % change	$\frac{\text{Difference in value}}{\text{old}} \times 100$
Substitute	$\frac{180 - 144}{144} \times 100$
% change	25%

b)
A javelin thrower has best throw of 60m. In the next competition he throws 72m. What is the percentage increase of his personal best?

New value	72
Old value	60
To find % change	$\frac{\text{Difference in value}}{\text{old}} \times 100$
Substitute	$\frac{72 - 60}{60} \times 100$
% change	%

c) A wine manufacturer puts down 250 bottles for 3 years. After 3 years only 220 bottles are in tact. What is the percentage decrease in the number of bottles?

New value	220
Old value	250
To find % change	$\frac{\text{Difference in value}}{\text{old}} \times 100$
Substitute	
% change	

d)
A man weighs 65Kg. After two weeks on a diet he weighs 58Kg. What is his percentage decrease in weight?

New value	58
Old value	65
To find % change	
Substitute	
% change	

e)
A board 130 cm long is trimmed to 104 cm. What percentage has been removed?

New value	
Old value	
To find % change	
Substitute	
% change	

f)
A piece of elastic 48 cm long is stretched to 60 cm. What percentage of the original length is the increase?