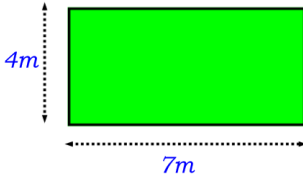


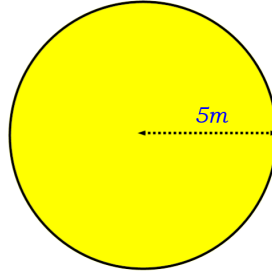
lots of NUMBER 5 PLUS



A rectangle measures 7m long and 4 m wide. These are measured correct to the nearest metre.

What are the maximum and minimum values for the length of the rectangle?

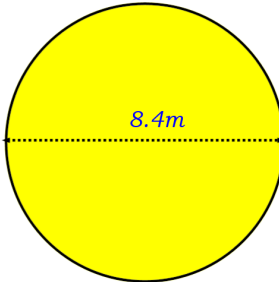
What is the maximum possible area of this rectangle?



A circle has a radius of 5m. This is measured correct to the nearest metre.

What are the maximum and minimum values for the radius?

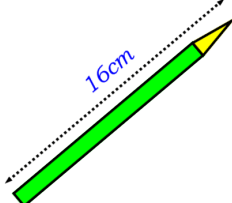
What is the maximum possible area of this circle?



A circle has a diameter of 8.4m. This measured correct to 1 decimal place.

What are the maximum and minimum values for the diameter?

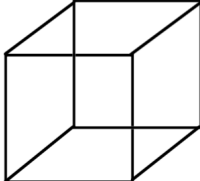
What is the minimum possible circumference of this circle?



A Pencil is 16cm correct to the nearest cm

What are the maximum and minimum possible values for the length of this pencil?

8 of these pencils are put end-to-end. What is the smallest possible length of this chain of 8 pencils?




A cube measures 8cm correct to the nearest cm.

What is the difference between the largest possible and smallest possible volume?


Harry puts £30000 into the bank at a 5% compound interest rate.

How much will he have at the end of 3 years?



Donald puts £30000 into the bank at a 5.2% compound interest rate.

How much will he have at the end of 3 years?




5.2% of £30000 = 300 x 5.2 = 1560

1560 x 3 = 4680

after 3years 30000 + 4680 =

Answer £34680

What is wrong with this answer?




House prices can go up and down!

Martha buys a house worth £220000.

The next year the value drops by 14%.

The year after it increases by 17%

What is the value of the house now?





House prices can go up and down!
 Amy buys a bungalow worth £180000.
 The next year the value drops by 17%.
 The year after it increases by 17%
 Amy is happy because she thinks that her house
 is worth the same £180000 that she paid.
 Explain why Amy is wrong.



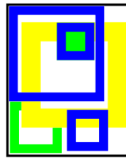
Mark buys a car valued at £8900
 It loses 14% of the value each year.
 How much is it worth after 3 years?



14% of £8900
= 8900 ÷ 100 x 14 = 1246
1246 x 3 = 3738
after 3 years 9800 - 3738 =
6062
Answer worth £6062

What is wrong with this answer?

Mr Paint Brush buys a famous Piece of Art work for £32million.
 The next year it increases in value by 33%
 Then it is discovered that the painting is a forgery.
 It loses 70% of the value during the second year.
 It loses a further 30% during the third year.
 How annoyed will Mr Brush be?
 What will be the value of his painting?

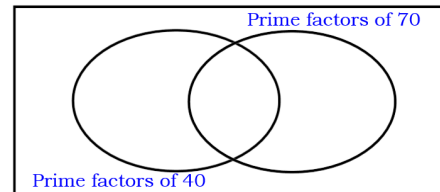


David buys a car valued at £8700
 It loses 9% of the value in the first year.
 Then for every year after it loses 11% of it's value.
 How much is it worth after 3 years?



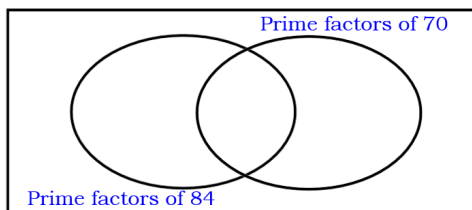
Express **60** as a product of prime factors

Write 40 and 70 as a product of prime factors.
 Fill in the Venn diagram of their prime factors.



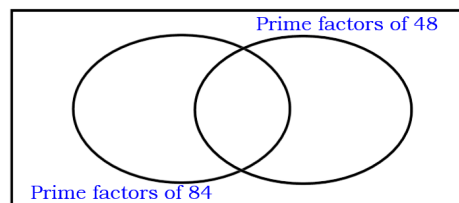
Use this Venn Diagram to find the HCF of 40 and 70

Write 84 and 70 as a product of prime factors.
 Fill in the Venn diagram of their prime factors.



Use this Venn Diagram to find the LCM of 84 and 70

Write 84 and 48 as a product of prime factors.
 Fill in the Venn diagram of their prime factors.



Use this Venn Diagram to find the LCM of 84 and 48