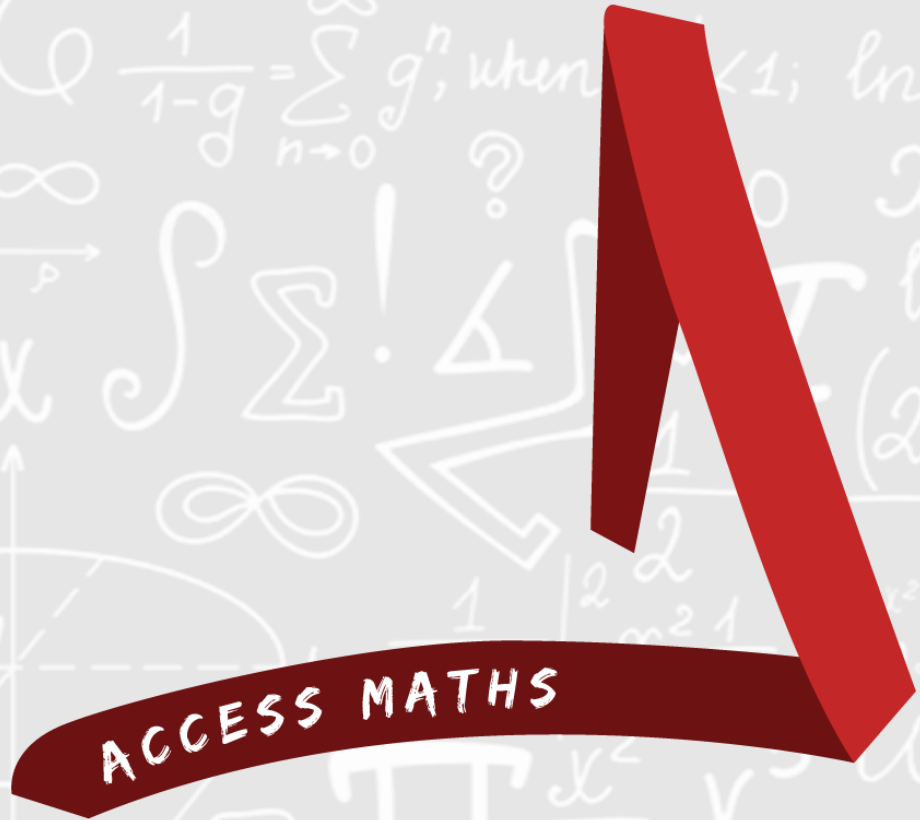


NUMERACY CHALLENGE



LEVEL 1

LEVEL 2

NUMERACY CHALLENGE



This was the extravagant cake made for the Centennial Birthday party of Las Vegas back in 2005. The cake used over 30,000 cakes and over 18 tonnes of frosting. That's Vegas baby!



How can you cut a birthday cake into 8 equal pieces, using only 3 straight cuts?

(You can't move the pieces around between cuts!)

LEVEL 1

NUMERACY CHALLENGE



The world chicken population is a staggering 19 billion. Considering the human population is 7.6 billion that's a lot of chickens!!



A farmer has some chickens and some sheep. Between the sheep and chickens, there are a total of 99 heads and feet.

There are twice as many chickens as there are sheep.

How many of each are there?

LEVEL 2

NUMERACY CHALLENGE LEVEL 1



How can you cut a birthday cake into 8 equal pieces, using only 3 straight cuts?

(You can't move the pieces around between cuts!)

NUMERACY CHALLENGE LEVEL 1



How can you cut a birthday cake into 8 equal pieces, using only 3 straight cuts?

(You can't move the pieces around between cuts!)

NUMERACY CHALLENGE LEVEL 2



A farmer has some chickens and some sheep. Between the sheep and chickens, there are a total of 99 heads and feet. There are twice as many chickens as there are sheep.
How many of each are there?

NUMERACY CHALLENGE LEVEL 2



A farmer has some chickens and some sheep. Between the sheep and chickens, there are a total of 99 heads and feet. There are twice as many chickens as there are sheep.
How many of each are there?

LEVEL 1

Make the first two cuts vertically in an X shape across the top of the cake, then the third cut horizontally right through the center. You'll end up with two layers of cake, with 4 pieces in each layer.

LEVEL 2

9 sheep, 18 chickens.

Students can use trial and error or can apply some algebra!

1 sheep = 5 (legs and head) , 1 chicken = 3 (legs and head) , There must be twice as many chicken so 6 (legs and head) to every 5 (legs and head) for the sheep. That's 11 in total. So 9 lots to make 99. That's 9 sheep and 18 chickens.

