

NUMERACY CHALLENGE



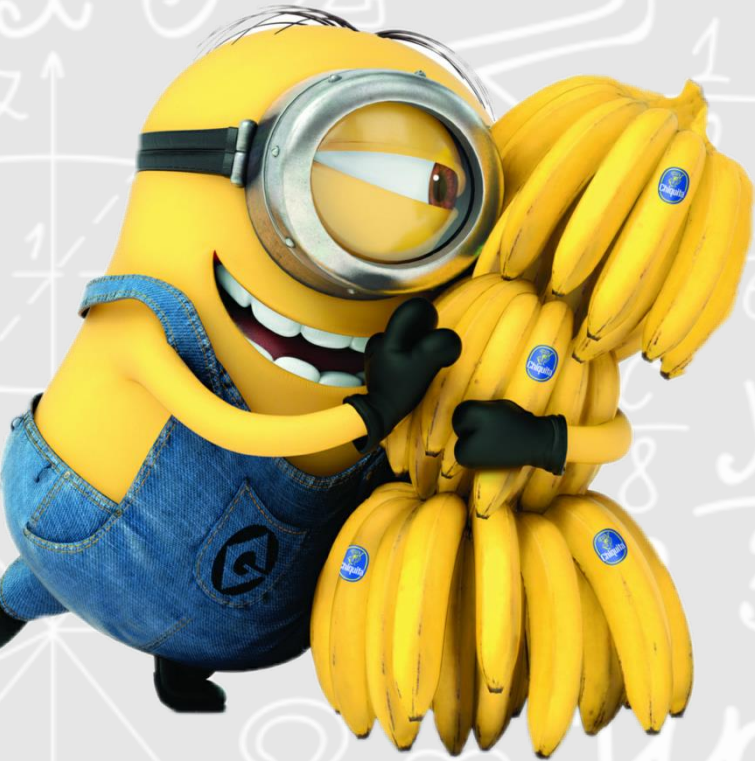
LEVEL 1



LEVEL 2

ACCESS MATHS

NUMERACY CHALLENGE



Three minions, Bob, Tim and Dave, shared a LOT of bananas.

There were 58 bananas in total.

For every 4 bananas Bob took, Tim took 3,
and for every 3 bananas Bob took, Dave took 2.

How many bananas did Bob get?

NUMERACY CHALLENGE



A bat ate 330 mosquitos in **four** nights.

Each night she ate **25 more** than the night before.

How many mosquitos did the bat eat on the **first night**?

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LEVEL 1

Answer: Trial and error works or follow the logic..

For every 4 bananas Bob took, Tim took 3,
and for every 3 bananas Bob took, Dave took 2

For Bob ($3 \times 4 = 12$) so he has to take a multiple of 12
bananas

So, if Bob takes 12 bananas, Tim takes 9 and Dave
takes 8.

In total this adds up to 29 bananas (half of 58)

So if Bob takes 24, Tim takes 18 and Dave takes 16
= 58 in total.

Dave takes 24.

LEVEL 2

Answer:

$330 / 4 = 82.5$ this gives a rough estimate around the amount of
bats eaten between the 2nd and 3rd night.

From here students could use trial and error, eg. if it was 65 the
next would be 90, 115 and 140 which totals 410 so we would
need to try a lower starting number.

Using algebra we can say $x + (x+25) + (x+50) + (x+75) = 330$

Therefore we have $4x + 150 = 330$

$$4x = 180$$

$$x = 45$$

$$45 + 70 + 95 + 120 = 330$$

The starting number is 45