# New Style Of Numeracy Starter

This is the new style of numeracy starter I will be using for the foreseeable future, this may be tweaked for the first few weeks. The whole point of this new style is to train the students how to revise Maths and to try and make them more independent outside of the classroom. If you have any questions please don't hesitate to ask.

This week I would like to recap the previous three weeks by using skills they have learnt when looking at area and fractions.

# How Do I Revise Maths?

Harriet gets paid £8.27 an hour, she works for 23 hours a week. Before tax or national insurance how much is Harriet being paid per week?

Alex shops around and sees two offers on tickets she wants.

Option 1: 4 tickets for £23.72 each at a discounted rate.

Option 2: Each ticket costs £32, buy 3 and get 1 free.

Alex needs 4 tickets, which offer should she use?

Not sure how to multiply decimals, google 'how to multiply decimals' see what methods you can find. Are there any good videos?

# Answers

Harriet gets paid £8.27 an hour, she works for 23 hours a week. Before tax or national insurance how much is Harriet being paid?

Option 1

£8.27 x 23
Multiply £8.27 by 100  to make £8.27 a whole number. This will give you £827.

Place the numbers in a grid to multiply:

|     | 800   | 20  | 7   |
| --- | ----- | --- | --- |
| 20  | 16000 | 400 | 140 |
| 3   | 2400  | 60  | 21  |

Add up the products:
16000+400+140+2400+60+21= £19021

As you previously multiplied £8.27 by 100 to make the calculation easier now you must rectify that by dividing the answer by 100 to get £190.21.

Alex shops around and sees two offers on tickets she wants.
Option 1: 4 tickets for £23.72 each at a discounted rate.

Option 2: Each ticket costs £32, buy 3 and get 1 free.

Alex needs 4 tickets, which offer should she use?

The first deal 4 tickets for £23.72 costs  £94.88, the second deal costs £96, the first deal is cheaper.

Option 2

Put  £8.27 x 23 straight into a grid:

|     | 8   | 0.2 | 0.07 |
| --- | --- | --- | ---- |
| 20  | 160 | 4   | 1.4  |
| 3   | 24  | 0.6 | 0.21 |

Add up the products:
160+4+24+0.6+1.4+0.21=£190.21

# Think This Is Something You Will Forget?

You should make a revision aid every time you revise, this way you have something you can keep referring back to. If you revise something one day then look over it for 10 minutes the next day and 5 minutes the day after that you WILL retain more of the information. Why put hours of work in then waste those hours by never re-visiting areas?

A good revision tool for this technique would be a fully worked example you have annotated so when you read it back it still makes sense.

# Need Extra Practice?

If you are needing extra practice on multiplying decimals you could make your own questions up as you can check them in a calculator!

https://www.ixl.com/math/grade-5/multiply-decimals-and-whole-numbers-word-problems

The link above contains some practice at the more worded questions.