Long Division 2

Q1. Recap moving digits down a column to divide by 10

Using factors to help divide....so 24, you could divide by 2, then 12....or 4, then 6; or 8, then 3?

To divide by 4....short bus stop method, or half and half again?

By 34...using multiples of 34 and use short method bus stop, or factors...17, and 2?

Q2. So using the multiples to help...take the carries with you and complete as a bus stop.

4070/37(approx more than 100?) 0 carry 4, then 1 carry the 3, then 1, then 0....=.110

3959/37...(a few less than last answer).0 carry the 3, 1 carry the 2, 0 carry the 25, how many in 259..7...= 107

7548/37...(think about the approximate answer...200 ish?). 0 carry the 7. Then 2 carry the 1. Then 0 carry the 14....so 148 is 4...= 204

4033/37...well this is 1x37 less than the first answer!=109

Q3. As area = length x width....and you know the area and the length.....divide the area by the length to find the width...6500 divide by 26

You could divide by 2 then 13. Or write multiples of 26...then bus stop.

Divide by 2 = 3250 3250 divide by 13= o carry 3, 2 carry 6, 5xlots make 65, then 0...=250

Q4. 4301/23...estimate...200 lots would be 4600, so about 190 lots?(so use multiples of 23 up to 23x7)... 0, carry 4, 1 in 43, carry 20, 23s in 200 is 8, carry 16, 23s in 161=7.....answer 187

9867/33-estimate...100x33=3300, 200=6600, 300=9900- so there is a very quick solution!!!! OR you could use factors of 11 and 3. 9867/3=3289....then divide by 11=299

7138/43- use multiples of 43 (up to 6x43)...estimate=4300=100x43, 200x43=8600- estimate=about 160?

0, carry 7. 1 carry 28, 43s in 283=6, carry25, 43s in 258=6...answer 166

It’s really important to do the estimating first! Why?

Q5... 2375/19- write multiples of 19 up to 5x19—then solve in the short bus stop way!=125

**Did you do an Estimate? Well 1900=100x19, so 120?**

**Q6.** 6600divide by 75---estimate 100x75=7500, so 85? As 10x75=750

I would use factors of 3 and 5 and 5 ---3x5x5=75 (as 3x 25=75)

Then use bus stop 6600/3=2200 2200/5= 440 440/5= 88

9251 divide by 29---estimate 2900=100x29, 300x29=8700....so 320?

Write multiples of 29, 58, 87, 116, 145, 174, 203, 232, 261, 290

0 carry 9, 3 carry 5, 1 carry 26, then 9= 319