Long Division 3

Q1 15,30,45,60,75,90,105,120, 135, 150 (x15)

Use this to help 760/15... estimate... 5x15=75 so 50x15=750

So 50 rem 10 or 50and2/3

163/15....10lots=150 so 10 rem 13 10 and 13/15

946= estimate...6x15=90 60x15=900 so 63 rem1, 63 and 1/15

740= so using first answer....49x15=735... so 49 rem 5, 49 and 1/3

Q2. Dexter is left with the whole amount as the first 2 digits are smaller than 15. He should use multiples to see the nearest one is 9 with remainder 1.

Q3. 764/14....i would use factors ( 2 and 7 ) or multiples of 14

764 divide by 2=382, then divide by 7 0 carry 3, 5 carry 3, 4 rem 4=54 rem 4, 54 and 4/7

1840/18....1840/2=920, 920/9=102 rem2 (1800=18x100)

Q4. 380+24+9=413 413/12 = 34 and 5 remainders, so need 35 tables.... how did you do it? Short method? Factors?

Q5. Not 899/8 (as highest remainder would be 7)

**899/30- would leave rem 29 (as 900 would be a multiple)**

Not 899/11, as 80x11=880, 81x11=891, so rem 8

**899/24, 24x10=240, 40x24=960 –so 38x24=912, 37x24=888, so rem 11**

NOT 899/99 10x99=990, so 9x99=891, so rem 8

Q6. Compare 650/15= how many bags needed x £1.20

650/24=number of bags needed x£2.00

4x15=60, so 40 x15=600, so need 44 bags. 44x£1.20=£52.80

Use factors? (2 and 12)650/2=325 325/12= 2 carry 8, 7 rem 1= 27 and 1, so 28 bags. 28 x £2=£56

**So cheapest shop is the first one!-Party Supplies**

Q7. Remember work one out and look for patterns

901/16= (5x16=80), 0 carry 9, 5 carry 10, 6 rem 5=A

B=rem 6, C=14, D=8, E=0, F=1, G=9, H=2

Place them in Venn diagram carefully

Q8. This is an investigation...you can use a calculator if it helps!!!!