Efficient Multiplication - Question Sheet

For each question, please work out the calculation, then explain which method that you have used to calculate the answer.
For example, I did 10 x 2 x 5 to solve 20 x 5.

A

1. 6 x 4 =
2. 12 x 4 =
3. 9 x 4 =
4. 8 x 6 =
5. 15 x 3 =
6. 15 x 6 =

B

1. 16 X 4 =
2. 19 X 5 =
3. 22 X 8 =
4. 8 X 32 =
5. 11 X 90 =
6. 12 X 50 =

C

1. 79 X 4 =
2. 101 X 12 =
3. 4 X 174 =
4. 14 X 25 =
5. 41 X 9 =
6. 176 X 11 =

Mo, Amir and Annie worked out 35 x 6 in 3 different ways.

Mo: I multiplied 30 by 6 and then added 5 more lots of 6

Amir: I multiplied 35 by 2, then multiplied that answer by 3

Annie: I multiplied 5 by 6, then multiplied that answer by 7

a) Work out the answer using each method to show that they are all correct.

Mo

Amir

Annie

b) Who has used the most efficient method?

Jack works out 36 x 9

36 x 9
36 x (10 – 1)
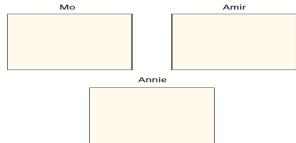360 – 36 = 324

Adapt Jack's method to work out 36 x 99

36 x 99 =

Esther has found a quick way to multiply 84 by 5

84 x 5
84 x 10 = 840
(then divide by 2) which is 420

Use Esther's method to complete the calculations.

43 x 5 =

74 x 5 =

62 x 5 =