1 The children of Class 4 are multiplying 28 × 4 mentally.
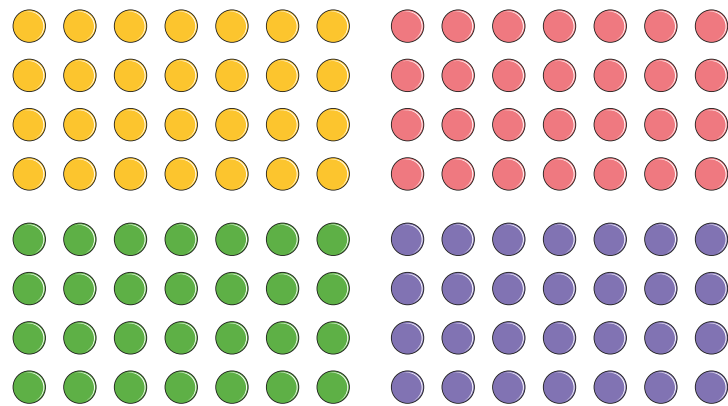
They are trying two different methods.

a) Complete their calculations.

Method 1

$20 \times 4 + 8 \times 4 = \boxed{} + \boxed{} = \boxed{}$

Method 2
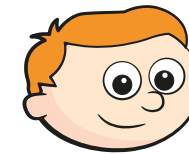

$4 \times \boxed{} = \boxed{}$
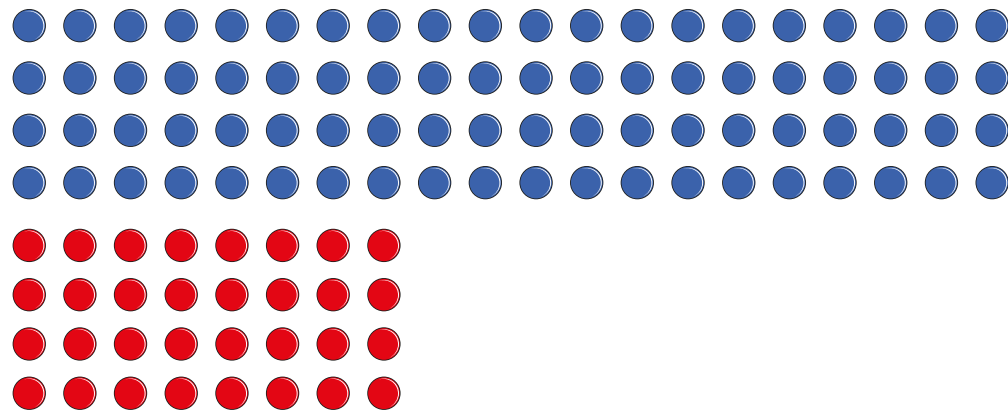
b) Which method do you find easier?

Talk about it with a partner.

c) What other methods could you use to work out 28 × 4?

_____

_____

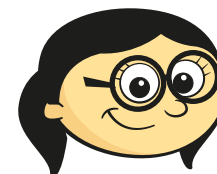**2** Ron, Amir and Annie have worked out 35 × 6 in different ways.

Ron: 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

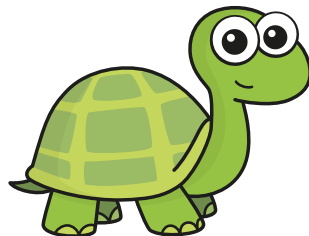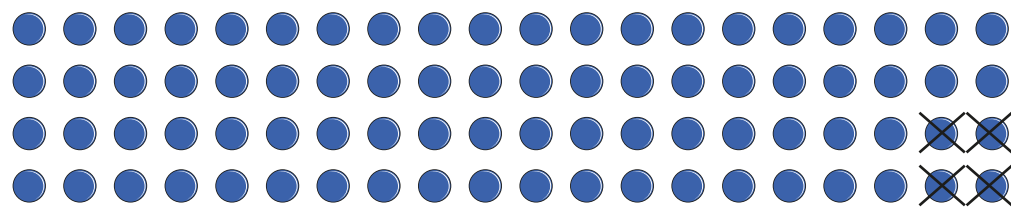**a)** Work out the answer using each method to show that they are all correct.

Ron

Amir

Annie

b) Who has used the most efficient method?

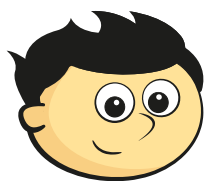Talk about it with a partner.

3 Tiny is working out 21 × 4

20 × 4 = 80
80 − 4 = 76
21 × 4 = 76

a) What mistake has Tiny made?

_____

b) What is the correct answer? ☐

4 Jack has worked out 36 × 9

36 × 9
36 × (10 − 1)
360 − 36 = 324

a) Use Jack's method to work out 28 × 9

28 × 9 = ☐

b) Adapt Jack's method to work out 36 × 99

36 × 99 = ☐

5 Esther has found a quick way to multiply 84 by 5

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

Use Esther's method to complete the calculations.

a) 43 × 5 = ☐   **c)** 74 × 5 = ☐

b) 62 × 5 = ☐   **d)** ☐ = 96 × 5

6 Tommy and Dora are both working out 25 × 8

a)

25 × 8 = 25 × 10 − 25 × 2

Use Tommy's method to work out the answer.

☐

b)
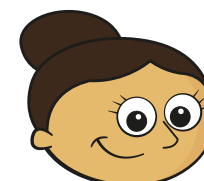
25 × 8 = 50 × 8 ÷ 2

Use Dora's method to work out the answer.

☐

c) Whose method do you prefer? _____

Why?