Problem solving – addition and multiplication
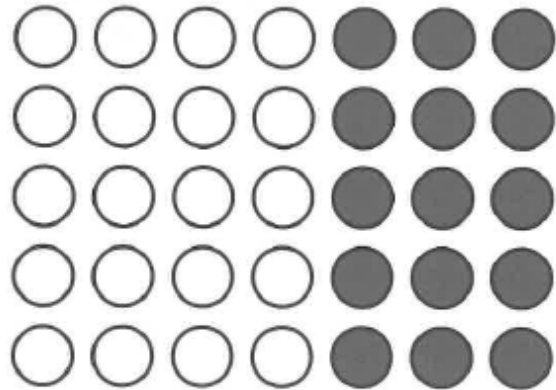
1 How many counters are there in total? Complete the two methods.

Method 1: multiply first and then add.

$5 \times 4 = \boxed{}$

$5 \times 3 = \boxed{}$

$\boxed{} + \boxed{} = \boxed{}$

Method 2: add first and then multiply.

$\boxed{} + \boxed{} = \boxed{}$

$\boxed{} \times 5 = \boxed{}$

There are $\boxed{}$ counters in total.

2 How many pens are there in total?

$\boxed{} + \boxed{} = \boxed{}$

$\boxed{} \times \boxed{} = \boxed{}$

There are $\boxed{}$ pens in total.

3 Work out the total number of balls.

a)

$$\boxed{} \times \boxed{} = \boxed{}$$

There are $\boxed{}$ balls in total.

b)

$$\boxed{} \times \boxed{} = \boxed{}$$
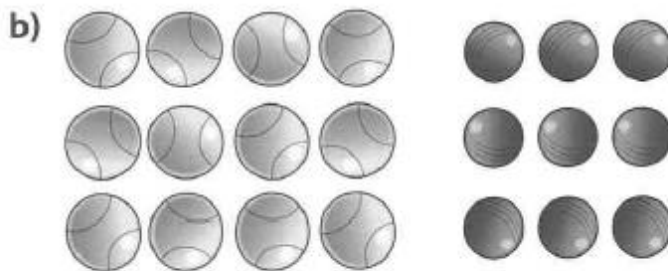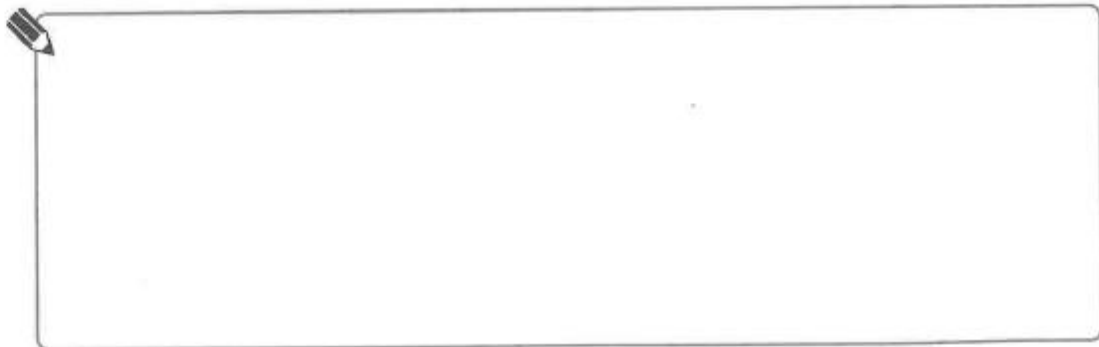
There are $\boxed{}$ balls in total.

4 Explain why the sum of 4×3 and 5×3 is the same as 9×3.

Use diagrams or counters to help you.

5 Complete the number sentences.

a) $4 \times 6 + 3 \times 6 = \boxed{} \times 6$

b) $7 \times 5 + 3 \times 5 = \boxed{} \times 5$

c) $9 \times 4 + \boxed{} \times 4 = 11 \times 4$

d) $5 \times 2 + 1 \times 2 = \boxed{} \times 2$

e) $4 \times 2 + 2 \times 5 = \boxed{} \times 2$

f) $\boxed{} \times 3 + 5 \times 3 = 9 \times 3$

6 Explain the method you would use to work out the total number of counters.
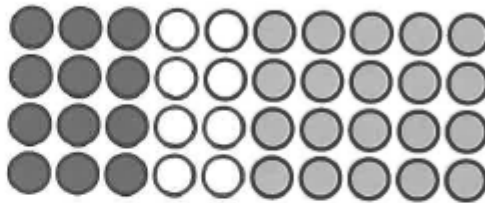
CHALLENGE

First I _____

_____.

Then I _____

_____.

There are $\boxed{}$ counters in total.

Reflect

Explain why $5 \times 3 + 2 \times 3$ is the same as 7×3.

_____

_____

_____