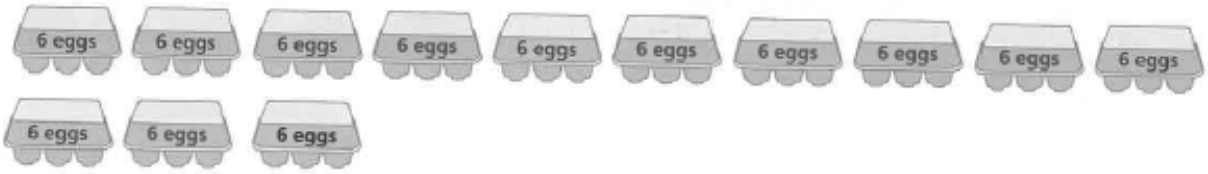
Using written methods to multiply

1 How many eggs are there in total?

a)



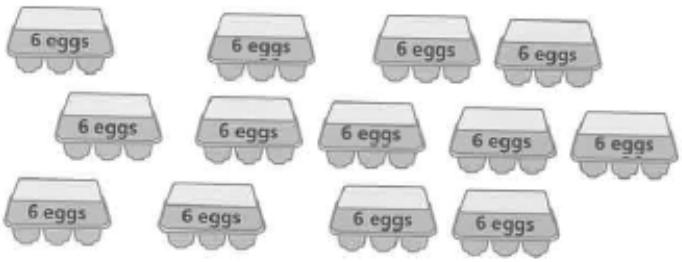
$\square \times \square + \square \times \square$

$= \square + \square$

$= \square$

There are $\square$ eggs in total.

b)



$\square \times \square = \square$

There are $\square$ eggs in total.

c) What do you notice about your two answers above? Why is this the case?

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_____

_____

2 How many beads are there in total?

$10 \times 3 = \square$ $\qquad$ $8 \times 3 = \square$

$\square + \square = \square$ $\qquad$ So, $18 \times 3 = \square$

There are $\square$ beads in total.

3 Complete the multiplication facts.

a) $10 \times 5 = \square$
$7 \times 5 = \square$
$17 \times 5 = \square$

b) $4 \times 10 = \square$
$4 \times 6 = \square$
$4 \times 16 = \square$

c) $3 \times 6 = \square$
$20 \times 6 = \square$
$23 \times 6 = \square$

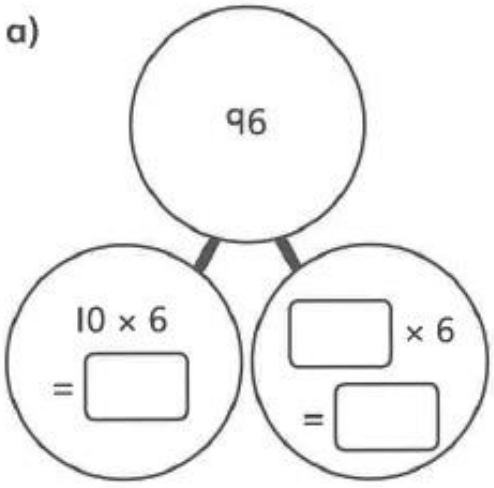
d) $3 \times 40 = \square$
$3 \times 5 = \square$
$3 \times 45 = \square$

e) $20 \times 8 = \square$
$5 \times 8 = \square$
$25 \times 8 = \square$

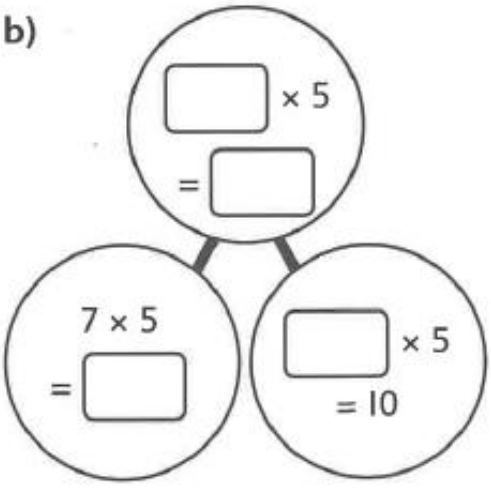
f) $11 \times 7 = \square$
$5 \times 7 = \square$
$16 \times 7 = \square$

4 Complete the part-whole models.

a)



b)



5 Complete the calculations.

CHALLENGE

a) $8 \times 10 + 8 \times 3 = \square \times 13$

b) $9 \times 10 + 9 \times 2 = 9 \times \square$

c) $10 \times 5 + 3 \times 5 = \square \times 5$

d) $7 \times 6 + 10 \times 6 = \square \times \square$

e) $4 \times 10 + 4 \times \square = 4 \times 17$

f) $9 \times 2 + 2 \times 10 = \square \times 2$

g) $3 \times 10 + 3 \times 10 + 3 \times 5 = \square \times \square$

Reflect

Find two ways of working out the total number of pencils.