Mathematics

Expressions, equations and inequalities Factorising expressions

Independent Task

Ms Jones



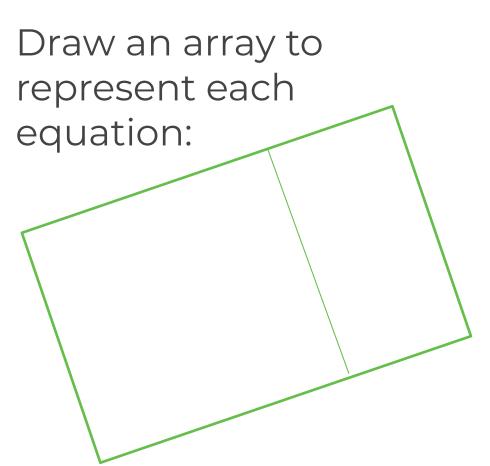
Try This

Fill in the blank spaces:

$$144 = \begin{bmatrix} \\ \\ \\ \\ \end{bmatrix} \times \begin{bmatrix} \\ \\ \\ \end{bmatrix} = 99 + 99$$

$$3a + 3a = \begin{bmatrix} \\ \\ \\ \\ \end{bmatrix} \times 3a = \begin{bmatrix} \\ \\ \\ \end{bmatrix}$$

$$3 \times 11 + 3 \times 19 = \begin{bmatrix} \\ \\ \\ \\ \end{bmatrix} \times \begin{bmatrix} \\ \\ \\ \end{bmatrix}$$





Independent task

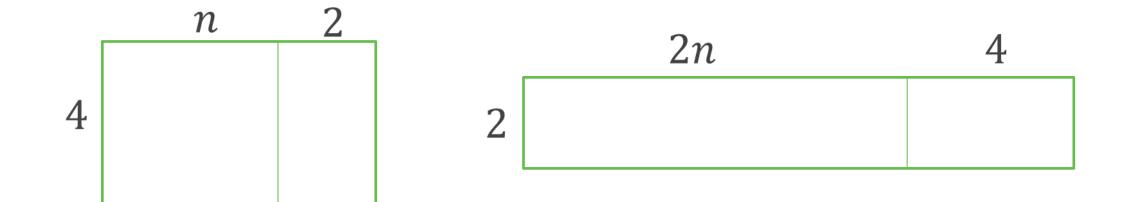
1. Fill in the gaps to make all four cards equivalent.

- 2. Complete the statements by factorising the expressions in different ways.
 - a) $6a + 9 = 3(\underline{a} + \underline{a})$
 - b) $12a 8 = 2(\underline{a} \underline{a}) = \underline{(3a 2)}$
 - c) $12m + 18n = 2(\underline{m} + \underline{n}) = \underline{(4m + 6n)}$



Explore

$$4(n+2) = 4n+8 = 2(2n+4)$$



Expand each expression then factorise them in different ways:

$$4(2n + 2)$$

$$6(n-3)$$

$$3(2n+1) + 7(2n+1)$$

