Mathematics

# Expressions, equations and inequalities <br> Factorising expressions 

Independent Task

Ms Jones

## Try This

Fill in the blank spaces:


## Independent task

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

$$
a+a+a+a+a+a+\ldots+\ldots+\ldots
$$



$$
2+a+a+2+a+a+2+a+a
$$

2. Complete the statements by factorising the expressions in different ways.
a) $6 a+9=3\left(\_\_a+\ldots\right)$
b) $12 a-8=2(\ldots a-\ldots)=\ldots(3 a-2)$
c) $12 m+18 n=2(\ldots m+\ldots n)=\ldots(4 m+6 n)$

## Explore

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



Expand each expression then factorise them in different ways:

$$
4(2 n+2) \quad 6(n-3) \quad 3(2 n+1)+7(2 n+1)
$$

