Mathematics

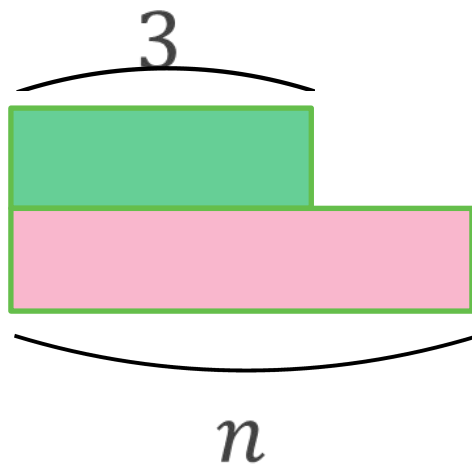# Expressions, equations and inequalities
Further inequalities

Independent Task

Ms Jones

Try this

A student looked at a bar model drawn to represent: $n > 3$

I think that n is less than 6.

Is the student correct?

How else could the bar model have been drawn?

Give some examples and non-examples.

Independent task

1. Tick the inequalities that are true when $a = 3$ and $b = -3$:

a) $a + b > 1$ ☐   b) $2a < b$ ☐   c) $a + 2 > b + 2$ ☐

2. Given that $x = 3y$, add in the correct symbol $=, >$ or $<$ into the following:

a) $x + 1$ __$3y$ d) x __$3y + 3$

b) $x + 2$ __$3y + 2$ e) x __$3y - 1$

c) $3y$__$x - 1$ f) $2x$ __$6y$

Explore

Use the cards to form inequalities that are **always** true:

$$a = b + 2$$

$$\boxed{} > \boxed{}$$

$$a + 1 \qquad a \qquad a - 1 \qquad a - 2 \qquad a - 3$$

$$b + 3 \qquad b + 2 \qquad b + 1 \qquad b \qquad b - 1$$