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## Modelling Inequalities <br> Using Relational Rods

You can use relational rods to model and solve two-step inequalities involving whole numbers.
Here's an example for the inequality $3 r+5>11$.

- There is a "+ 5 " in the expression on the left.

Start by placing a yellow 5 rod on a centimetre number line.
You want to add 3 rods of the same colour and end up to the right of 11 .
What colour rods can you use?
What is the smallest rod you can use?


- The pink 4 rod works. You end up at 17.

- The light green 3 rod also works. You end up at 14.

- But the red 2 rod doesn't work. You end up at 11.

- The smallest rod that works is the light green rod. So, the solution is $r>2$.

