

Modelling Inequalities 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 3r + 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.

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