Mathematics

Manipulating inequalities

Mr Millar



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Manipulating Inequalities

Downloadable Resource

Mr Millar



Connect

Given that p > q + 2

Are the following sometimes, always or never true?

$$p + 5 > q + 7$$

$$2p > 2q + 4$$



Independent task

If A > B (and both are positive), are the following inequalities always,

sometimes or never true?

$$A + 2 > B + 2$$

$$A > B + 5$$

$$B - 1 < A$$

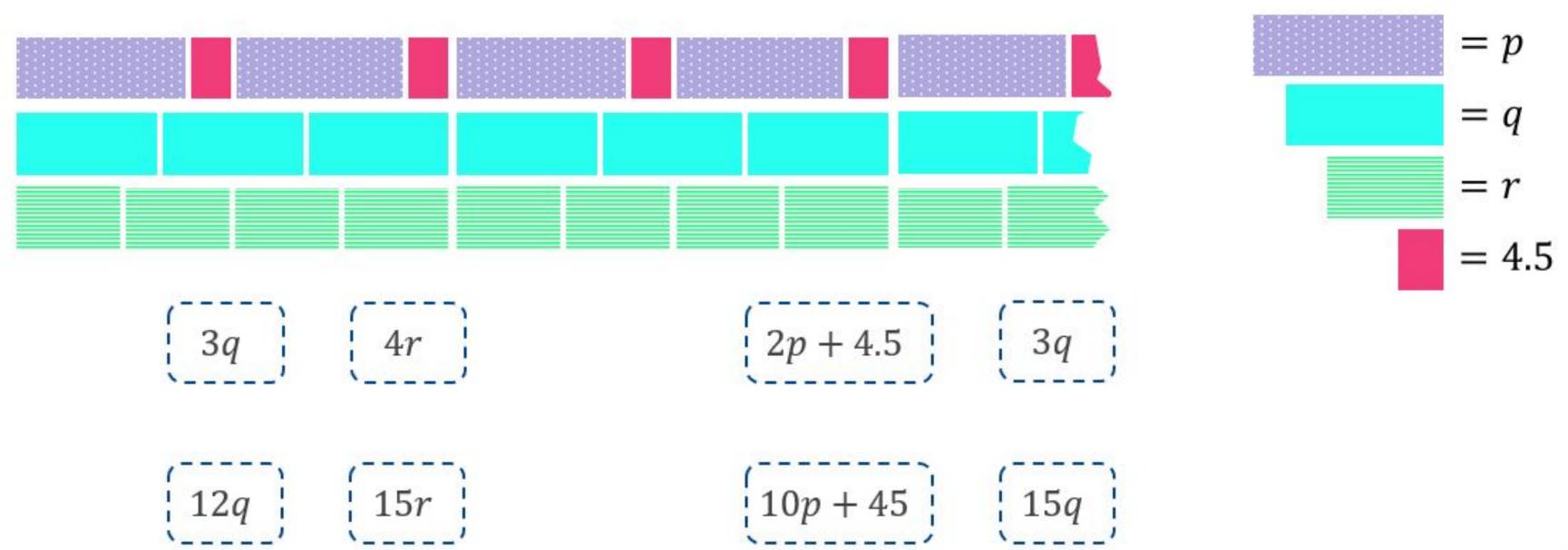
$$-A < -B$$



Explore

Imagine continuing the repeating pattern in the bar model.

Write a =, < or > in between each pair of cards.





Answers

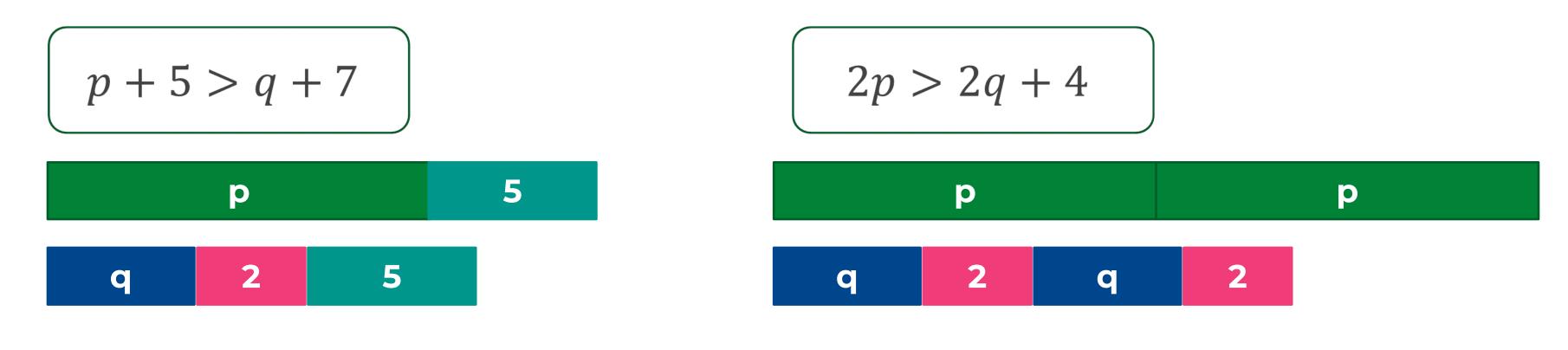


Try this

Given that p > q + 2

Always true

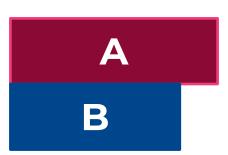
Are the following sometimes, always or never true?



Always true



Independent task



$$A + 2 > B + 2$$

Always true

Always true

$$A > B + 5$$

Sometimes true

$$B - 1 < A$$

Always true

Never true

$$-A < -B$$

Always true



Try this

Imagine continuing the repeating pattern in the bar model.

Write a =, < or > in between each pair of cards.

