Reading and drawing single inequalities

numerise

Core

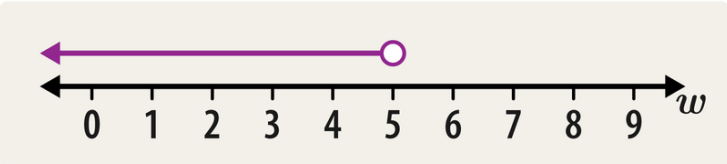
1: Decide whether $>$ or $<$ should go in each of the boxes to complete the statements below.

a) 2 ☐ 9

b) 1 ☐ -10

c) -5 ☐ -7

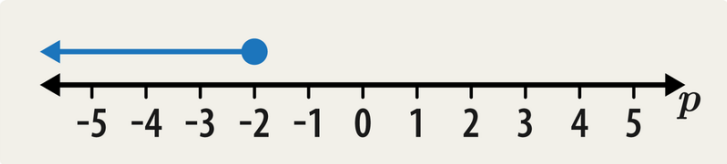
2: Write down the inequality shown on the number line below.



3: The number line below shows information about a variable, p.

Select **all** of the following values that p could take:

$-4, \quad 0, \quad -6, \quad 5, \quad -1, \quad -2.5$

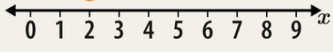


Reading and drawing single inequalities

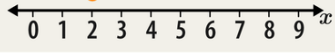
numerise

4: Work out which number line below shows the values that x can take if $x \geq 2$.

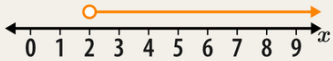
A



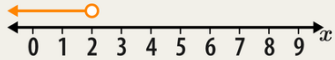
B



C

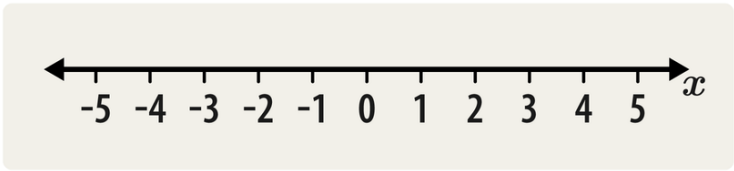


D



5: Copy down the number line below.

Draw the inequality $x > -1$ on your number line.



Extension

1: Work out which number line below shows the values that x can take if $5 \leq x$.

A

B

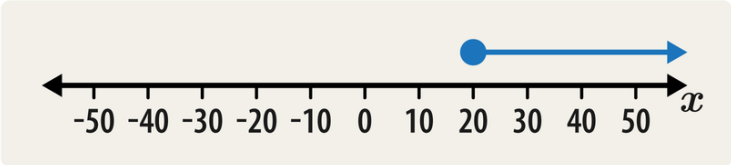
C

D

Reading and drawing single inequalities

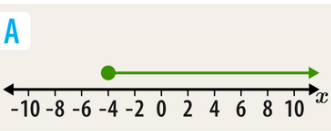
numerise

2: Write down the inequality shown on the number line below.

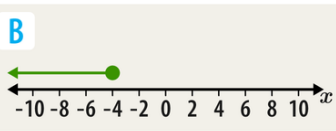


3: Work out which number line below shows the values that x can take if $x \leq -4$.

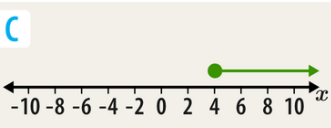
A



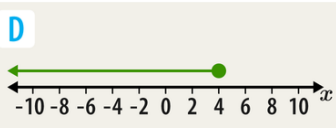
B



C

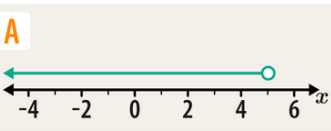


D

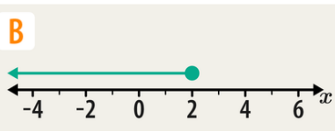


4: Work out which number line below shows the values that x can take if $x < 3$.

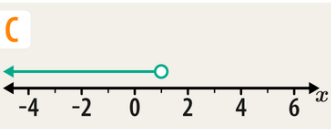
A



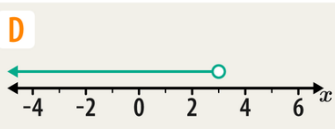
B



C



D



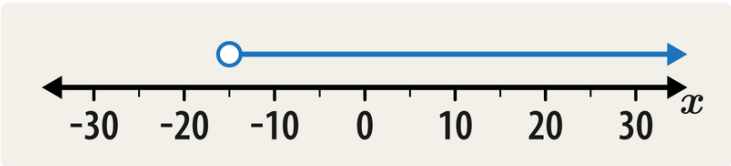
Reading and drawing single inequalities

numerise

5: The number line below shows information about a variable, x.

Select **all** of the following values that x could take:

$-15, \quad 12, \quad 0, -17, \quad 15, -20, -12$



Challenge

1: Complete the statements by choosing which of the following symbols should go in each box below:

$<$ $>$ $=$

a) $100 \times 2 \square 20 \times 10$

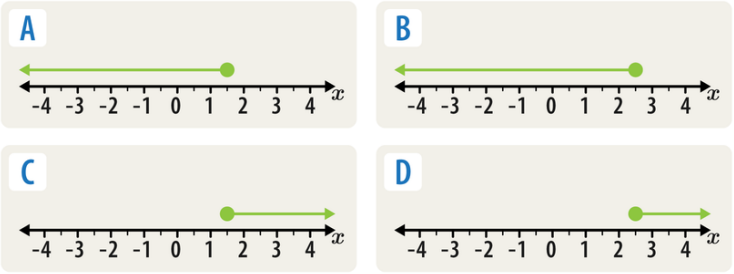
b) $2^3 \square 3^2$

c) $10 - 2 \square 2 - 10$

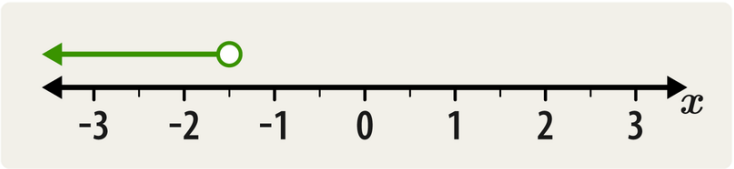
Reading and drawing single inequalities

numerise

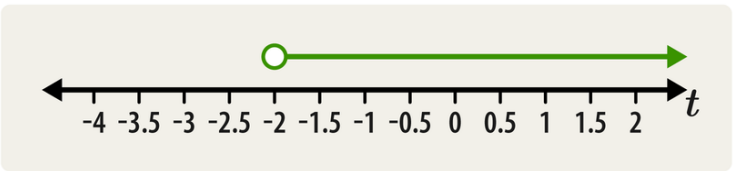
2: Work out which number line below shows the values that x can take if $x \geq 2.5$.



3: Write down the inequality shown on the number line below.



4: What is the lowest **integer** that satisfies the inequality shown on the number line below?



Reading and drawing single inequalities

numerise

5: Six inequalities are shown below.

Select **all** of the inequalities for which 4 is the lowest integer value that x could take.

$x > 4$ $x < 5$ $x > 3$

$x < 4$ $x \geq 4$ $x \leq 4$