Mathematics

Order and Absolute Value Worksheet

Mrs Buckmire

Try this

Which number line(s) could be used to **accurately** plot the following groups of numbers:
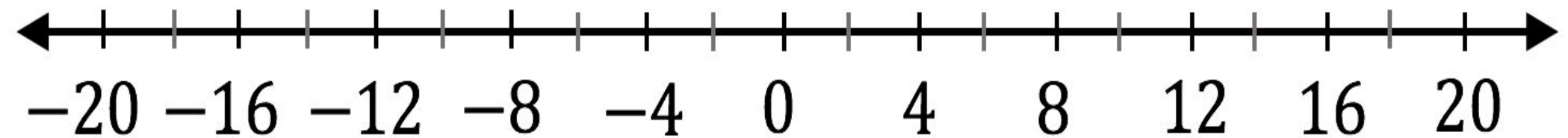
1. -20, 120 and 180
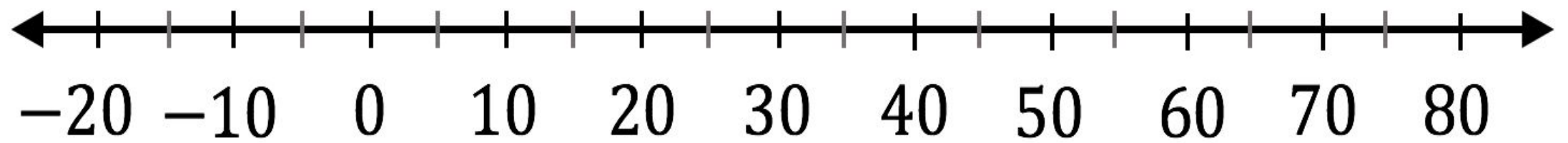
2. -8, -4 and 10

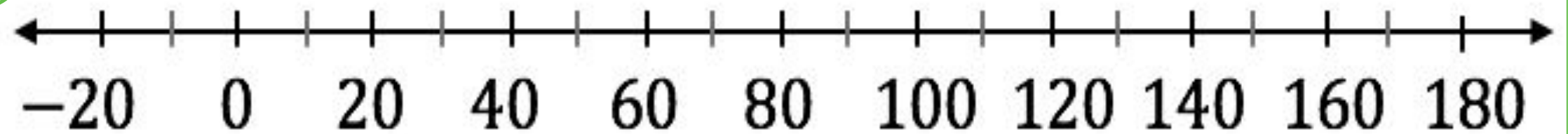3. -15, 10 and 20

4. -11, 5 and 9

5. -20, -10, 10 and 20

A

−20 −16 −12 −8 −4 0 4 8 12 16 20

B

−20 −10 0 10 20 30 40 50 60 70 80

C

−20 0 20 40 60 80 100 120 140 160 180

Independent task

1. Find all the possible numbers with an absolute value of:

   a) 7   b) 432   c) ¾   d) 0   e) -5

2. For each of the following add the correct symbol: > or <.

a) 7____5   b) -7_____5   c) -7_____-5

d)7_____-5   e) -2_____0   f) -9_____-8

3. For each of the pairs of numbers in question 2 circle the number with the largest absolute value.

4. a)Find two numbers that have the same absolute value where the distance between them is 4

b) Find two numbers that have the same absolute value where the distance between them is 5

c) Find two numbers where the absolute value of one is double the absolute value of the other and the distance between them is 6.
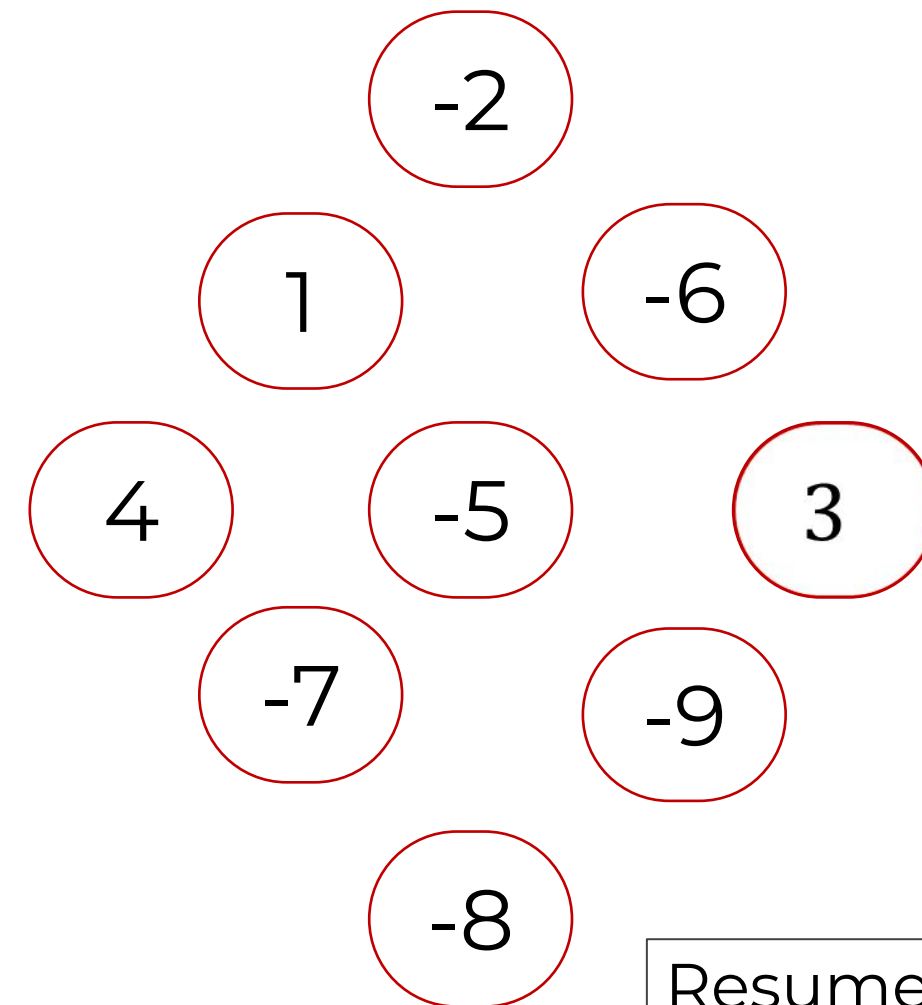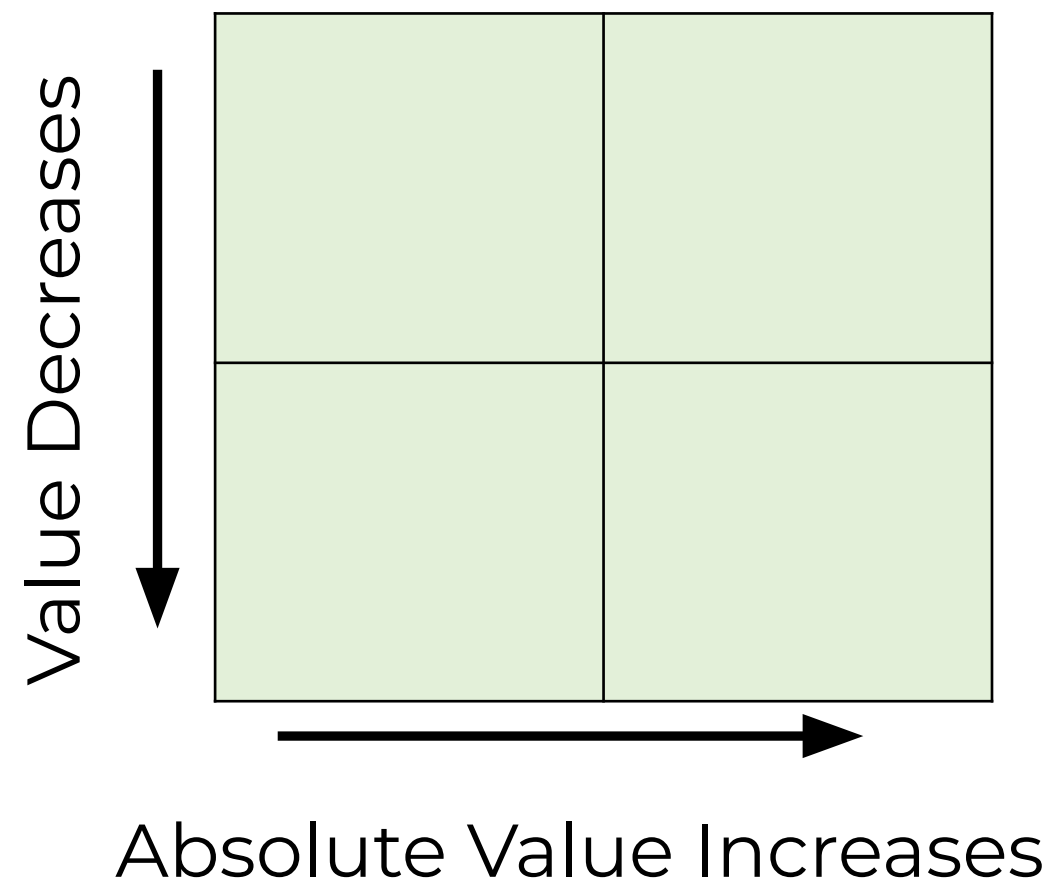
Resume the video once completed

Explore

Place **four** of the nine integers in to the 2 x 2 grid.

How many solutions can you find?

Can you find a solution for a 3 x 3 grid?

Value Decreases

Absolute Value Increases

-2

1   -6

4   -5   3

-7   -9

-8

Resume the video once completed