

Counting Forwards by 1s is Adding 1 Each Time, on a Number Line ↖



INVESTIGATIONS OVERVIEW PAGE

THIS PAGE IS A SUMMARY OF THE INVESTIGATIONS THAT STUDENTS MAY ENGAGE IN TO DEEPEN THEIR RELATIONAL UNDERSTANDING.

INVESTIGATIONS WITH INSTRUCTIONS TO STUDENTS FOLLOW ON SUBSEQUENT PAGES.

- (For children who are developing their understanding that counting forwards by 1s is adding 1 each time) In pairs, children collect 1 counter, record 1 counter and the number 1. Children add 1 counter. Children record the counter and the total number of counters. Children repeatedly add 1 counter, recording the counter and the total number of counters. Children identify that they are counting forwards by 1s by adding 1 each time, and that the number after is 1 more. **Reflection:** How many are we adding each time when we count forwards by ones?
- (For children who have developed their understanding that counting forwards by 1s is adding 1 each time) In pairs, children select a numeral card 0 - 20 and begin counting forwards from the number. Children record an open, empty number line. Children record their start number on the left end of the number line. Children repeatedly record jumps to add 1. Children identify that they are counting forwards by 1s by adding 1 each time, and that the number after is 1 more. **Reflection:** How many are we adding each time when we count forwards by ones on a number line?
- In pairs, children repeatedly add 1 on a calculator, for example, press $1 + 1$ then repeatedly press the '=' button. Children identify that repeatedly adding 1 means we are counting forwards. **Reflection:** How many are we adding each time when we count forwards by ones?

Numerals cards 0 – 19 (print, cut out and distribute as appropriate to each child)

0	4	8
1	5	9
2	6	10
3	7	

14	16	17	18
19	15	13	12
11			

Counting Forwards by 1s is Adding 1 Each Time, on a Number Line

Collect 1 counter.

Record the counter and the number 1.

Add 1 counter.

Record the counter and the total number of counters.

Add 1 counter.

Record the counter and the total number of counters.

Are you counting forwards by 1s by adding 1 each time?

Is the number after 1 more?

Reflection: How many are we adding each time when we count forwards by ones?

Counting Forwards by 1s is Adding 1 Each Time, on a Number Line

Select a card to make a number that is neither too easy nor too challenging and start counting forwards.

Record an open empty number line.

Count forwards by 1s by adding 1 each time on the number line.

Are you counting forwards by 1s by adding 1 each time?


Is the number after 1 more?

Reflection: How many are we adding each time when we count forwards by ones on a number line?

Counting Forwards by 1s is Adding 1 Each Time, on a Number Line

Repeatedly add 1 on a calculator.

Press 1, then + 1

Repeatedly press the  button.

Are you counting forwards by 1s by adding 1 each time?

Is the number after 1 more?

Reflection: How many are we adding each time when we count forwards by ones?