

Reasoning and Problem Solving

Step 4: Count One More and One Less

National Curriculum Objectives:

Mathematics Year 1: (1N1a) [Count to 20, forwards and backwards, beginning with 0 or 1, or from any given number](#)

Mathematics Year 1: (1N2a) [Count, read and write numbers to 100 in numerals](#)

Mathematics Year 1: (1N2b) [Given a number, identify one more and one less](#)

Mathematics Year 1: (1N4) [Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than \(fewer\), most, least](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Create sequences of 3 numbers including a given value. Including numbers up to 10, with pictorial representations.

Expected Create sequences of 3 numbers including a given value. Including numbers up to 20.

Greater Depth Create sequences of 3 numbers including a given value. Including numbers up to and beyond 20.

Questions 2, 5 and 8 (Problem Solving)

Developing Use a given set of cubes to create 2 sequential numbers. Including numbers up to 10.

Expected Use a given set of cubes to create 2 sequential numbers. Including numbers up to 20.

Greater Depth Use a given set of cubes to create 2 sequential numbers. Including numbers up to and beyond 20.

Questions 3, 6 and 9 (Reasoning)

Developing Solve a riddle using knowledge of one more and one less. Including numbers up to 10.

Expected Solve a riddle using knowledge of one more and one less. Including numbers up to 20.

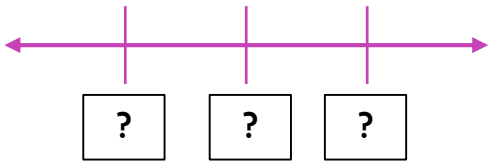
Greater Depth Solve a riddle using knowledge of one more and one less. Including numbers up to and beyond 20.

More [Year 1 Place Value](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Reasoning and Problem Solving – Count One More and One Less

1a. Jon is filling in the gaps on this number line.



One of the numbers is 2.

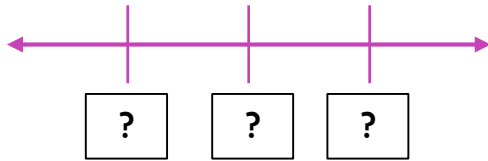


How many answers can you find for the missing numbers?



PS

1b. Amir is filling in the gaps on this number line.



One of the numbers is 7.

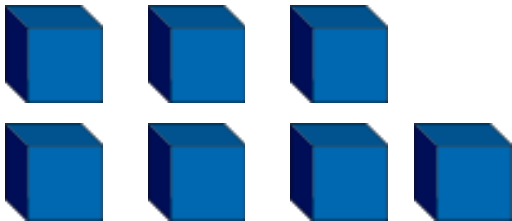


How many answers can you find for the missing numbers?



PS

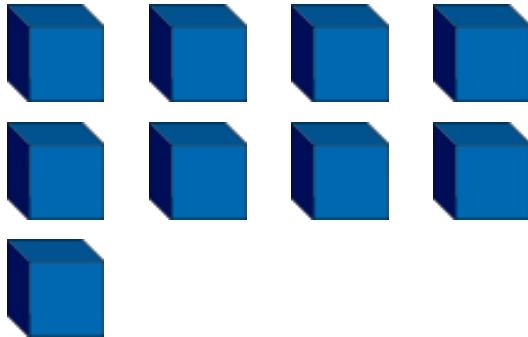
2a. Use all of the cubes to make 2 numbers that have a difference of 1.



What numbers have you made?

PS

2b. Use all of the cubes to make 2 numbers that have a difference of 1.



What numbers have you made?

PS

3a. Jo is thinking of a number.



One less than my number is 9.

What is Jo's number?
Explain your answer.



R

3b. Beth is thinking of a number.



One more than my number is 1.

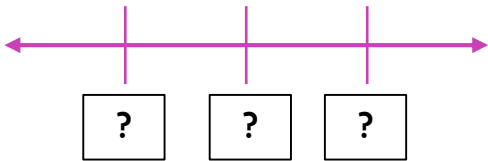
What is Beth's number?
Explain your answer.



R

Reasoning and Problem Solving – Count One More and One Less

4a. Harry is filling in the gaps on this number line.



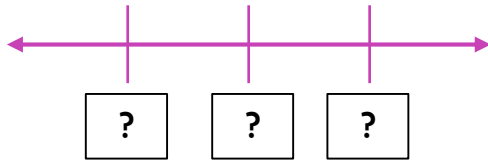
One of the numbers is 11.



How many answers can you find for the missing numbers?

PS

4b. Isla is filling in the gaps on this number line.



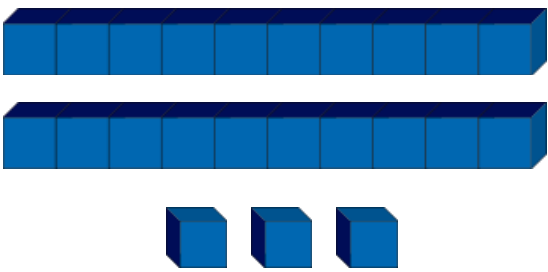
One of the numbers is 15.



How many answers can you find for the missing numbers?

PS

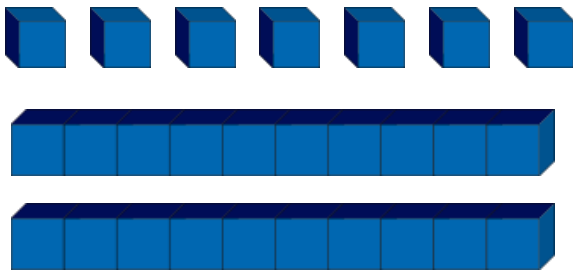
5a. Use all of the cubes to make 2 numbers that have a difference of 1.



What numbers have you made?

PS

5b. Use all of the cubes to make 2 numbers that have a difference of 1.



What numbers have you made?

PS

6a. Leila is thinking of a number.



One less than my number is 19.

What is Leila's number?
Explain your answer.

R

6b. Oscar is thinking of a number.



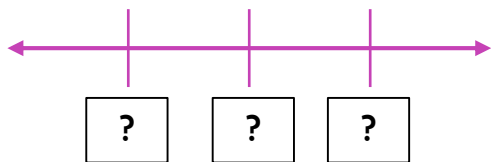
One more than my number is 17.

What is Oscar's number?
Explain your answer.

R

Reasoning and Problem Solving – Count One More and One Less

7a. Kristofer is filling in the gaps on this number line.



One of the numbers is 25.

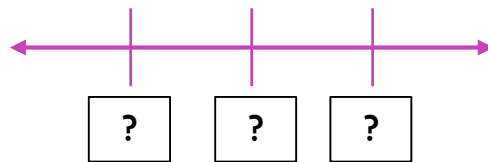


How many answers can you find for the missing numbers?



PS

7b. Dee is filling in the gaps on this number line.



One of the numbers is 29.



How many answers can you find for the missing numbers?



PS

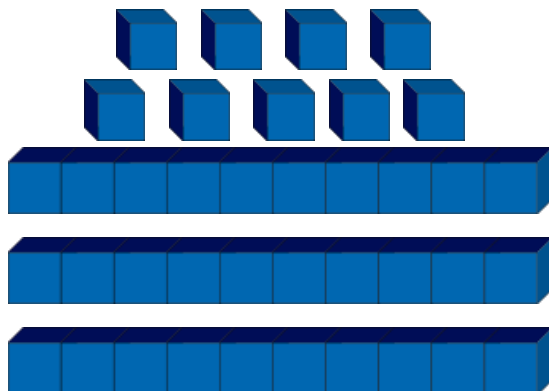
8a. Use all of the cubes to make 2 numbers that have a difference of 1.



What numbers have you made?

PS

8b. Use all of the cubes to make 2 numbers that have a difference of 1.



What numbers have you made?

PS

9a. Naomi is thinking of a number.



One less than my number is 20.

What is Naomi's number?
Explain your answer.



R

9b. Arthur is thinking of a number.



One more than my number is 27.

What is Arthur's number?
Explain your answer.



R

Reasoning and Problem Solving – Count One More and One Less

Developing

- 1a. Three possible answers: 2, 3, 4 or 1, 2, 3 or 0, 1, 2
- 1b. Three possible answers: 7, 8, 9 or 6, 7, 8 or 5, 6, 7
- 2a. 3, 4
- 2b. 4, 5
- 3a. Jo's number is 10 because 9 is one less than 10. 10 is one more than 9.
- 3b. Beth's number is 0 because 1 is one more than 0. 0 is one less than 1.

Expected

- 4a. Three possible answers: 11, 12, 13 or 10, 11, 12 or 9, 10, 11
- 4b. Three possible answers: 15, 16, 17 or 14, 15, 16 or 13, 14, 15
- 5a. 12, 11
- 5b. 13, 14
- 6a. Leila's number is 20 because 19 is one less than 20. 20 is one more than 19.
- 6b. Oscar's number is 16 because 17 is one more than 16. 16 is one less than 17.

Greater Depth

- 7a. Three possible answers: 25, 26, 27 or 24, 25, 26 or 23, 24, 25
- 7b. Three possible answers: 29, 30, 31 or 28, 29, 30 or 27, 28, 29
- 8a. 22, 23
- 8b. 19, 20
- 9a. Naomi's number is 21 because 20 is one less than 21. 21 is one more than 20.
- 9b. Arthur's number is 26 because 27 is one more than 26. 26 is one less than 27.