

2. [- Whole Numbers to 10]

Skill 2.1 Subtracting whole numbers from 1 to 10 by counting back.

MMYellow 11 22 33 44
MMRed 11 22 33 44

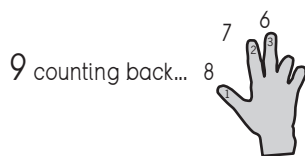
- Start with the largest number.
- Count backwards the second number.

Q.

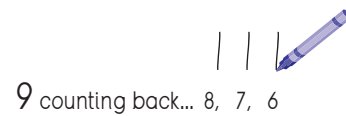
	9	12	4	11	7	6	13	10	8	5
- 3										

A.

	9	12	4	11	7	6	13	10	8	5
- 3	6	9	1	8	4	3	10	7	5	2



OR



$$9 - 3 = ?$$

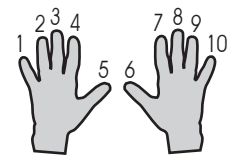
Start with the first number given, 9.

Count backwards 3.

$$9 - 3 = 6$$

a)

	8	6	5	3	12	7	9	11	4	10
- 2	6	4								



b)

	13	7	11	10	6	8	14	15	9	12
- 6	7									

c)

	12	8	7	11	10	13	6	15	14	9
- 5	7									

d)

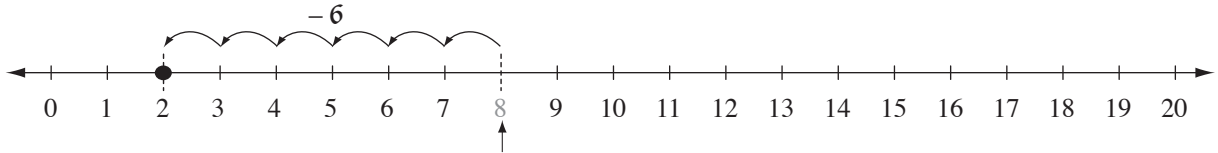
	12	9	13	17	10	11	14	16	18	15
- 8										

Q.

	8	14	10	12	7	15	13	11	9	16
-6										

A.

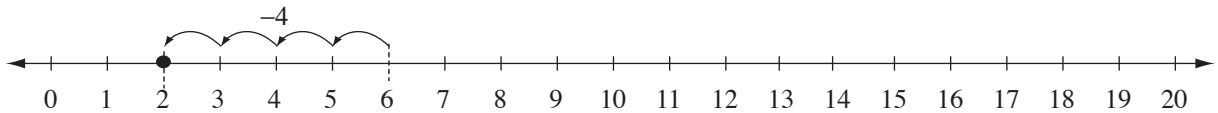
	8	14	10	12	7	15	13	11	9	16
-6	2	8	4	6	1	9	7	5	3	10



$8 - 6 = ?$ Start at 8. Go backward 6 places. You are at 2.
 $8 - 6 = 2$

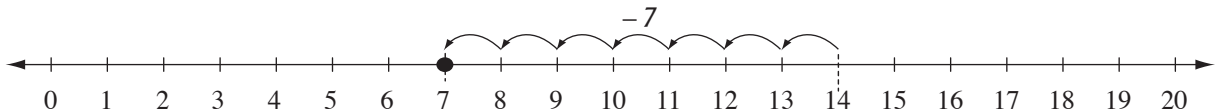
a)

	6	5	12	8	13	14	11	7	10	9
-4	2									



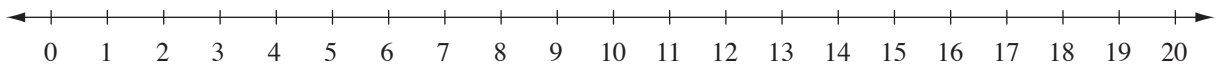
b)

	14	7	12	8	10	11	16	13	9	15
-7										



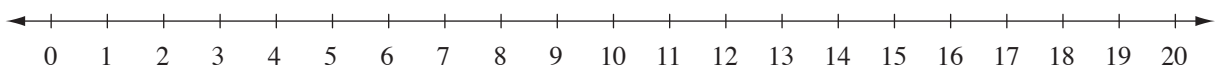
c)

	15	17	10	14	11	18	13	9	12	16
-8										



d)

	9	11	4	12	7	5	10	8	13	6
-3										



Skill 2.3 Subtracting whole numbers from 1 to 10 from two-digit numbers with smaller unit values (e.g. $13 - 8 = 5$).

- Look at the unit value of the two-digit number.
- Break down the single digit number to include this number and the remainder.
- Subtract the number from the two-digit number; 10 will be the result.
- Then subtract the remainder from 10.

Q.

	17	15	11	14	9	16	18	10	13	12
- 8										

A.

	17	15	11	14	9	16	18	10	13	12
- 8	9	7	3	6	1	8	10	2	5	4

$$17 - 8$$

$$= 17 - 7 - 1$$

The unit value of 17 is 7. You need a 7.
Break down 8 into 7 and 1. $7 + 1 = 8$



$$= 10 - 1$$

$$= 9$$

Subtract 7 from 17 to get 10.
Subtract 1 from 10.

a)

	14	9	16	12	8	13	10	11	7	15
- 6	8	3	10		2		4		1	

$$14 - 6$$

$$= 14 - 4 - 2$$

$$= 10 - 2$$

$$= 8$$

b)

	17	16	12	8	10	11	15	14	9	13
- 7	10			1	3				2	

c)

	9	11	14	12	17	15	10	18	13	16
- 8	1						2	10		

d)

	10	15	14	18	19	12	16	13	11	17
- 9	1				10					

Skill 2.4 Subtracting 7, 8 or 9 by building up.

MMYellow 1 1 2 2 3 3 4 4
MMRed 1 1 2 2 3 3 4 4

- Build up 7, 8 or 9 to 10 by adding the amount needed.
- Build up the number being subtracted from, by adding the same amount.
- Then complete the subtraction from 10.

Q.

	16	15	14	13	12	11	10	9	8	17
-7										

A.

	16	15	14	13	12	11	10	9	8	17
-7	9	8	7	6	5	4	3	2	1	10

$$\begin{aligned}
 &= +1 \left(\begin{array}{l} 16 - 7 \\ 17 - 8 \end{array} \right) +1 \\
 &= +1 \left(\begin{array}{l} 18 - 9 \\ 19 - 10 \end{array} \right) +1 \\
 &= 9
 \end{aligned}$$

To subtract 7 from 16: Build up 7 to 10 by adding 3.
Also build up 16 by adding 3.
16 becomes 19.
Then subtract 10 from 19.

a)

	16	19	13	18	12	15	17	10	14	11
-9	7	10						1		

$$\begin{aligned}
 &= +1 \left(\begin{array}{l} 16 - 9 \\ 17 - 10 \end{array} \right) +1 \\
 &= 7
 \end{aligned}$$

Hint: When you subtract 9, the unit in the answer is always one more than the unit in the question!

b)

	13	17	18	10	15	11	14	16	12	9
-8			10	2						1

c)

	10	12	8	11	14	15	9	13	17	16
-7	3		1				2		10	

Q.

	15	17	9	11	18	16	13	10	12	14
- 8										

A.

	15	17	9	11	18	16	13	10	12	14
- 8	7	9	1	3	10	8	5	2	4	6

+	1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10	11
2	3	4	5	6	7	8	9	10	11	12
3	4	5	6	7	8	9	10	11	12	13
4	5	6	7	8	9	10	11	12	13	14
5	6	7	8	9	10	11	12	13	14	15
6	7	8	9	10	11	12	13	14	15	16
7	8	9	10	11	12	13	14	15	16	17
8	9	10	11	12	13	14	15	16	17	18
9	10	11	12	13	14	15	16	17	18	19
10	11	12	13	14	15	16	17	18	19	20

$15 - 8 = ?$

Reword the subtraction by turning it into an addition.

Ask:

“What number, when added to 8, will give 15?”

$8 + ? = 15$

Answer: Using the addition table

$8 + 7 = 15$

So $15 - 8 = 7$

a)

	14	10	12	13	15	7	9	11	8	6
- 5	9	5								

b)

	7	8	12	11	5	10	14	13	9	6
- 4	3	4								

c)

	11	16	14	8	12	9	15	10	13	7
- 6	5									

d)

	12	9	7	3	10	8	4	6	11	5
- 2	10									