

4. Rewrite using addition to find each difference.

- a) $(+6) - (+4)$ b) $(-5) - (+4)$ c) $(-2) - (-3)$
 d) $(+4) - (-2)$ e) $(+1) - (+1)$ f) $(+1) - (-1)$

5. What is the difference in temperatures?

How can you subtract to find out?

- a) A temperature 7°C above zero and a temperature 5°C below zero
 b) A temperature 15°C below zero and a temperature 8°C below zero
 c) A temperature 4°C below zero and a temperature 9°C above zero

6. What is the difference in golf scores?

How can you subtract to find out?

- a) A golf score of 2 over par and a golf score of 6 under par
 b) A golf score of 3 under par and a golf score of 8 under par
 c) A golf score of 5 under par and a golf score of 4 over par

7. a) The table shows the average afternoon temperatures in January and April for four Canadian cities.

What is the rise in temperature from January to April for each city? Show your work.

b) Which city has the greatest difference in temperatures?

How do you know?

	City	January Temperature	April Temperature
i)	Calgary	-4°C	$+13^{\circ}\text{C}$
ii)	Iqaluit	-22°C	-10°C
iii)	Toronto	-3°C	$+12^{\circ}\text{C}$
iv)	Victoria	$+7^{\circ}\text{C}$	$+13^{\circ}\text{C}$



8. Assessment Focus

- a) Subtract: $(-6) - (+11)$
- b) Suppose we subtract the integers in the opposite order: $(+11) - (-6)$
How does the answer compare with the answer in part a?
Use number lines to explain.
- c) How is $(+6) - (-11)$ different from $(-6) - (+11)$? Explain.

9. Show three ways that $+4$ can be written as the difference of two integers.

10. Take It Further Use patterns to subtract.

- a) Subtract: $(+2) - (+5)$
Start the pattern with $(+6) - (+5) = +1$.
- b) Subtract: $(+7) - (-3)$
Start the pattern with $(+7) - (+4) = +3$.
- c) Subtract: $(-3) - (+7)$
Start the pattern with $(+8) - (+7) = +1$.

11. Take It Further Copy each integer pattern.

Write the next 4 terms.

What is the pattern rule?

- | | |
|--------------------------|------------------------|
| a) $+6, +2, -2, \dots$ | b) $-3, -1, +1, \dots$ |
| c) $+5, +12, +19, \dots$ | d) $+1, 0, -1, \dots$ |

12. Take It Further Evaluate.

- | | |
|--------------------------|-------------------------|
| a) $(+4) - (+2) - (+1)$ | b) $(-2) - (+1) - (-4)$ |
| c) $(-1) + (-2) - (+1)$ | d) $(+5) - (+1) + (-2)$ |
| e) $(+10) - (+3) - (-5)$ | f) $(-7) - (+1) + (-3)$ |