



Integers



Name: _____

Date: _____

Remember: To work with integers, rewrite **subtracting a negative** as adding, and **adding a negative** as subtracting. Check with a number line: does your answer make sense?

A. Multi-step calculations

1. $12 + (-4) + 9 = \underline{\hspace{2cm}}$

2. $-6 - (-15) + (-10) = \underline{\hspace{2cm}}$

3. $7 + (-12) - (-6) = \underline{\hspace{2cm}}$

4. $9 + (-20) + 13 = \underline{\hspace{2cm}}$

5. $11 - (-7) - (-15) = \underline{\hspace{2cm}}$

6. $14 - (-18) + 16 = \underline{\hspace{2cm}}$

B. Missing numbers

7. $-13 - \underline{\hspace{1cm}} = 9$

8. $-3 + \underline{\hspace{1cm}} = -13$

9. $14 + \underline{\hspace{1cm}} = -6$

10. $-4 - \underline{\hspace{1cm}} = 2$

C. Mt Ruapehu overnight temperatures

11. What was the coldest night, and what was its temperature?

Day	Mon	Tue	Wed	Thu	Fri
Min °C	-5	-7	-4	-6	6

12. What is the range (warmest – coldest)?
_____13. Between which two nights was the biggest rise in temperature? By how much?

D. Problems

14. Aoraki/Mt Cook is 3724 m above sea level. The deepest point of the Puysegur Trench is about -6300 m. What is the vertical difference between them?

_____15. A freezer truck is at -11 °C. It warms by 29 °C during unloading, then cools by 33 °C. What is the final temperature?



E. Reasoning

16. Tama says “ $-7 - -7 = -14$ ”. Is he right? Explain using a number line or the rule.

17. Write three different pairs of integers that add to -5 . Use at least one positive number in each pair.

F. Puzzles

18. Two integers add to -4 . Their difference is 10. What are the two integers?

19. In a quiz, Jack starts on -17 points, gains 9 and 12 points, then loses 23 points. What is the final score? How many points are needed to get back to 0?



1. 17
2. -1
3. 1
4. 2
5. 33
6. 48
7. -22
8. -10
9. -20
10. -6
11. Tue, -7 °C
12. $6 - (-7) = 13$ °C
13. Thu to Fri, 12 °C
14. $3724 - (-6300) = 10,024$ m
15. $-11 + 29 - 33 = -15$ °C
16. No. $-7 - (-7) = -7 + 7 = 0$.
17. e.g. $2 + (-7)$, $5 + (-10)$, $10 + (-15)$
18. 3 and -7 (check: $3 + (-7) = -4$, $3 - (-7) = 10$)
19. $-17 + 9 + 12 - 23 = -19$; needs 19 points