

Name: _____
Ms. Napolitano

Date: _____
Integers

Topic: Subtracting Integers

Day 3. 5: Try Now:

Determine the sum or difference of each example.

a) $11 + 8$	b) $11 + (-8)$	c) $-11 + 8$	d) $8 - 11$	e) $-8 - (-11)$
Answer: _____	Answer: _____	Answer: _____	Answer: _____	Answer: _____

f) Which expressions give you the same answer? Justify your answer.

Motivation_ Turn and Talk

What is the difference between $-7 + (-3)$ and $-7 - (-3)$?
Will you get the same answer? Why or why not? Show your work below.

Model Find the difference of the following examples below.

Rules

1. Look at each numbers sign. "Positive or _____".
2. Same signs _____ and keep the _____.
Different signs _____, keep the sign of the _____ digit.
3. Double signs _____ them .
 $-(-) = \underline{\hspace{2cm}}$
 $-(+) = \underline{\hspace{2cm}}$
 $+(-) = \underline{\hspace{2cm}}$

<p>a) $4 - 13$</p> <ol style="list-style-type: none"> 1) _____ and _____ 2) Same signs or different signs? 3) The answer of the sign will be positive or negative? Show your work below. 	<p>b) $-4 - 13$</p> <ol style="list-style-type: none"> 1) _____ and _____ 2) Same signs or different signs? 3) The answer of the sign will be positive or negative? Show your work below. 	<p>a) $-4 - (-13)$</p> <ol style="list-style-type: none"> 1) _____ and _____ 2) Same signs or different signs? 3) The answer of the sign will be positive or negative? Show your work below.
<p>4) $13 - 4$</p> <p>Answer: _____</p>	<p>5) $13 - (-4)$</p> <p>Answer: _____</p>	<p>6) $-13 - (-4)$</p> <p>Answer: _____</p>
<p>7) $13 + (-4)$</p> <p>Answer: _____</p>	<p>8) $-13 + (-4)$</p> <p>Answer: _____</p>	<p>9) $-4 + (-13)$</p> <p>Answer: _____</p>

CFU_Think-Pair-Share

1) Find the difference of the following examples below.

<p>a) $9 - 20$</p> <p>1) _____ and _____</p> <p>2) Same signs or different signs?</p> <p>3) The answer of the sign will be positive or negative?</p> <p>Show your work below.</p> <p>Answer: _____</p>	<p>b) $20 - 9$</p> <p>Answer: _____</p>	<p>c) $-9 - 20$</p> <p>Answer: _____</p>	<p>d) $-20 - (-9)$</p> <p>Answer: _____</p>
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2) Ms. Napolitano asked which numerical expression , $5 - (-5)$, $-5 - 5$, $-5 - (-5)$, equals 0. Jahvonn said $5 - (-5) = 0$, Solomon said $-5 - 5 = 0$, and Aubrey said $-5 - (-5) = 0$. Who is correct? Justify your answer.

Guided Practice Find the difference of the following examples below.

<p>a) $37 - 18$</p> <p>Answer: _____</p>	<p>b) $37 - (-18)$</p> <p>Answer: _____</p>	<p>c) $-37 - 18$</p> <p>Answer: _____</p>
<p>d) $-37 - (-18)$</p> <p>Answer: _____</p>	<p>e) $-37 + 18$</p> <p>Answer: _____</p>	<p>f) $-37 + (-18)$</p> <p>Answer: _____</p>

CFU_Think-Pair-Share

Directions_ Determine the sum or difference for each example.

Level A #s 1-6

Level B #s 1- 8

Level C #s 1- 12

1) $7 - 12$

2) $8 - (-9)$

3) $6 + (-13)$

4) $-5 - 9$

5) $-17 - (-8)$

6) $54 - (-29)$

7) $76 + (-83)$

8) $-35 - 78$

9) $-23 - 46$

10) $12 + (-15)$

11) $10 - (-10)$

12) $-67 - (67)$

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Day 3. 5: Independent Practice:

Level A #s 1- 18

Level B #s 1- 22

Level C #s 1-26

1. $8 - 4$

2. $9 - (-2)$

3. $-12 - (-3)$

4. $14 - (-9)$

5. $-15 - (-10)$

6. $12 - (-17)$

7. $-6 - (-8)$

8. $12 - 14$

9. $0 - (-7)$

10. $15 - (-7)$

11. $20 - (-10)$

12. $-31 - 14$

13. You are scuba diving at -8 feet. You dive 5 feet deeper. What is your position in the water?

14. Write $7 - 3$ using addition.

15. Write $5 + (-3)$ using subtraction.

Evaluate the expression.

16. $8 - 12 - (-6)$

17. $8 - (-8) - 3$

18. $0 - (-4) - 8$

19. $9 - (-4) + 1$

20. $7 - 12 - (-4)$

21. $-11 - (-8) - (-3)$

22. $-14 - 6 - (-2)$

23. $8 + 0 - (-11)$

24. $8 + 13 - (-5)$

25. The table shows the record monthly high and low temperatures in International Falls, Minnesota.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
High (°F)	48	58	76	93	95	99	98	95	95	88	73	57
Low (°F)	-46	-45	-38	-14	11	23	34	30	20	2	-32	-41

a. Find the range of temperatures for each month.

Range = High – Low

Jan	Feb	Mar	Apr
May	Jun	July	Aug

Sept	Oct	Nov	Dec

b. What are the all-time high and all-time low temperatures?

High Temperature	
Low Temperature	

c. What is the range of the temperatures in part (b)?

The range is _____.

26. The table shows the highest and the lowest elevation for two cities.

City	Highest elevation (feet)	Lowest elevation (feet)
Long Beach, CA	360	-7
New Orleans, LA	25	-8

a) Find the range of elevation for Long Beach.

b) Find the range of elevations for New Orleans.

Day 3. 5: Extra Practice

Subtract.

1. $8 - 13$

2. $18 - (-11)$

3. $-14 - 35$

4. $-51 - (-36)$

5. $100 - (-91)$

6. $-82 - 64$

7. $35 - 47$

8. $-36 - (-54)$

9. A dolphin is at -28 feet. It swims up and jumps out of the water to a height of 8 feet. Write a subtraction expression for the vertical distance the dolphin travels.

Evaluate the expression.

10. $15 - 42 - (-36)$

11. $17 - (-22) - 22$

12. $0 - (-41) - 28$

13. $87 - (-34) + 13$

14. $-35 - 27 - (-14)$

15. $-51 - (-23) + (-16)$

16. $-14 - 63 - (-52)$

17. $-28 + 10 - (-121)$

18. $8 - (-103) - (-95)$

Use mental math to solve the equation.

19. $a - 24 = 47$

20. $26 - b = 9$

21. $c - (-15) = 38$

22. $-5 - k = -12$

23. $t - (-14) = -24$

24. $-25 - m = 28$

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Day 3. 5: Exit Ticket

Determine the sum or difference of each example.

a) $12 - 23$	b) $34 - (-5)$	c) $-9 + 9$	d) $-7 - 6$	e) $-5 - (-7)$
Answer: _____	Answer: _____	Answer: _____	Answer: _____	Answer: _____

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Determine the sum or difference of each example.

a) $12 - 23$	b) $34 - (-5)$	c) $-9 + 9$	d) $-7 - 6$	e) $-5 - (-7)$
Answer: _____	Answer: _____	Answer: _____	Answer: _____	Answer: _____

