

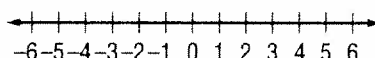
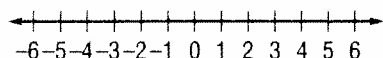
2-1**Practice*****Integers and Absolute Value*****Write an integer for each situation.**

1. a profit of \$12
2. 1,440 feet below sea level
3. 22°F below 0
4. a gain of 31 yards

Graph each set of integers on a number line.

5. $\{-5, 0, 5\}$

6. $\{-3, -2, 1, -4\}$

**Evaluate each expression.**

7. $|-11|$

8. $|-5| + 8$

9. $|-4| - |-4|$

10. $|12| \div 2 \times |-5|$

11. $|-4| + 7 - |3|$

12. $9 + |-6| \div 1^2$

13. **HEALTH** A veterinarian recommends that a St. Bernard lose weight. Write an integer to describe the dog losing 25 pounds.

14. **GEOGRAPHY** Mount Kilimanjaro is the highest peak in Africa. Write an integer to represent the elevation of Mount Kilimanjaro of 5,895 meters above sea level.

15. **ECONOMY** Gasoline prices occasionally fluctuate during a two month period of time. Prices increased 34 cents per gallon during the month of April and decreased 17 cents per gallon during the month of May. What integers can be used to describe each change in price?

2-2**Skills Practice****Comparing and Ordering Integers**

Replace each ● with < or > to make a true sentence.

1. $-15 \bullet -16$

2. $-8 \bullet -7$

3. $0 \bullet -2$

4. $-2 \bullet -5$

5. $-25 \bullet 3$

6. $-14 \bullet |-20|$

7. $|-4| \bullet 3$

8. $|-6| \bullet |-7|$

9. $|-7| \bullet |2|$

10. $-8 \bullet |-9|$

Determine whether each sentence is *true* or *false*. If *false*, change one number to make the sentence true.

11. $-7 < 3$

12. $2 > 0$

13. $-20 < -22$

14. $12 < 15$

15. $3 > |-5|$

16. $|-2| < -3$

17. $|8| < |-10|$

18. $|-11| = 11$

19. $-4 < 4$

20. $|-9| < |-10|$

Order the integers from least to greatest.

21. 12, -6, 20, -47, -11

22. 9, -6, 0, -4, 17, -11

Order the integers from greatest to least.

23. -40, 65, -7, 24, -6, 15

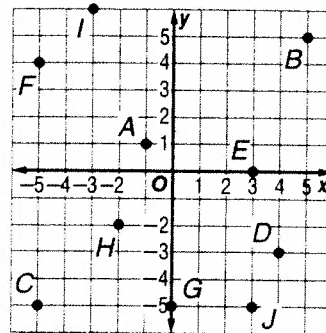
24. $|-13|$, 0, 7, -8, -5, $|2|$

2-3

Skills Practice

The Coordinate Plane

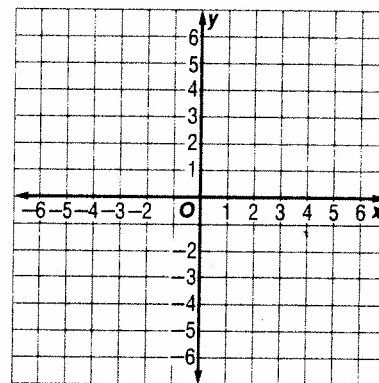
Name the ordered pair for each point graphed at the right. Then identify the quadrant in which each point lies.



- | | |
|------|-------|
| 1. A | 2. B |
| 3. C | 4. D |
| 5. E | 6. F |
| 7. G | 8. H |
| 9. I | 10. J |

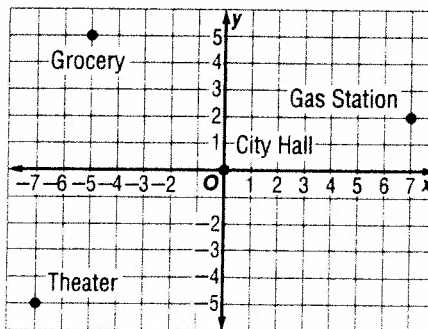
Graph and label each point on the coordinate plane.

- | | |
|-----------------|----------------|
| 11. $N(-1, 3)$ | 12. $V(2, -4)$ |
| 13. $C(4, 0)$ | 14. $P(-6, 2)$ |
| 15. $M(-5, 0)$ | 16. $K(-1, 5)$ |
| 17. $I(-3, -3)$ | 18. $A(5, -3)$ |
| 19. $D(0, -5)$ | |



Name the ordered pair for each point on the city map at the right.

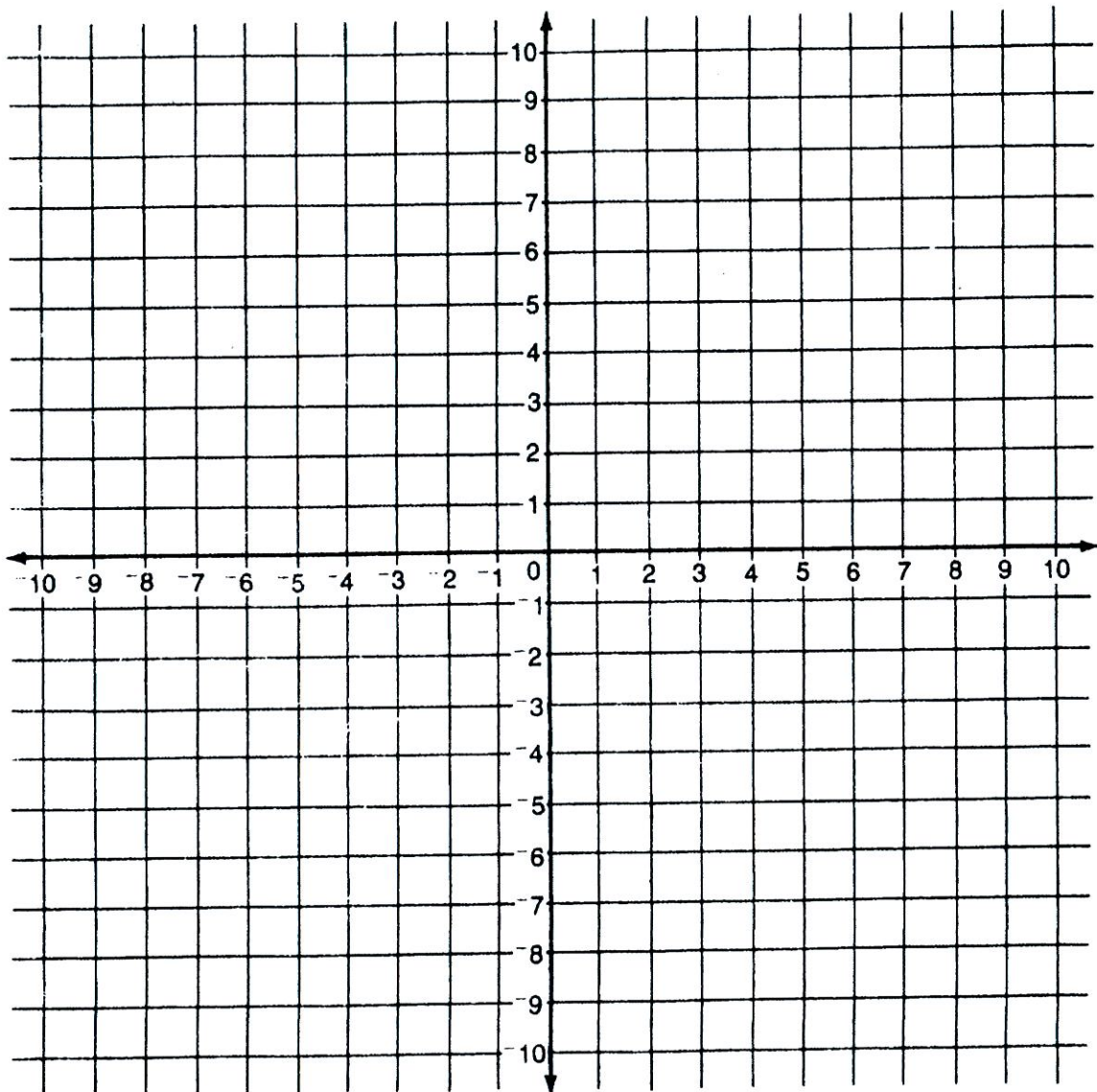
20. City Hall
21. Theater
22. Gas Station
23. Grocery



WS "Stilwell Practice 2-3"

Graph each point. Connect the points in order, using line segments, and connect the last point to the first one. Then connect each point with (0, 0).

- | | | | |
|--------------|--------------|--------------|--------------|
| 1. (10, 0) | 2. (6, 3) | 3. (7, 7) | 4. (3, 6) |
| 5. (0, 10) | 6. (-3, 6) | 7. (-7, 7) | 8. (-6, 3) |
| 9. (-10, 0) | 10. (-6, -3) | 11. (-7, -7) | 12. (-3, -6) |
| 13. (0, -10) | 14. (3, -6) | 15. (7, -7) | 16. (6, -3) |



2-4**Skills Practice*****Adding Integers*****Add.**

1. $5 + (-8)$

2. $-3 + 3$

3. $-3 + (-8)$

4. $-7 + (-7)$

5. $-8 + 10$

6. $-7 + 13$

7. $15 + (-10)$

8. $-11 + (-12)$

9. $25 + (-12)$

10. $-14 + (-13)$

11. $14 + (-27)$

12. $-28 + 16$

Evaluate each expression if $a = -8$, $b = 12$, and $c = -4$.

13. $5 + a$

14. $b + (-9)$

15. $c + (-5)$

16. $a + b$

17. $a + 0$

18. $b + c$

19. $-12 + b$

20. $a + (-7)$

21. $21 + c$

22. $a + c$

2-5**Skills Practice****Subtracting Integers****Subtract.**

1. $5 - 2$

2. $6 - (-7)$

3. $-3 - 2$

4. $8 - 13$

5. $-7 - (-7)$

6. $6 - 12$

7. $15 - (-7)$

8. $-15 - 6$

9. $-3 - 8$

10. $-10 - 12$

11. $13 - (-12)$

12. $14 - (-22)$

13. $10 - (-20)$

14. $-16 - 14$

15. $-25 - 25$

16. $6 - (-31)$

17. $-18 - (-40)$

18. $15 - (-61)$

Evaluate each expression if $r = -4$, $s = 10$, and $t = -7$.

19. $r - 7$

20. $t - s$

21. $s - (-8)$

22. $t - r$

23. $s - t$

24. $r - s$

Subtracting Integers

(for Skills Practice 2-5)

	Same	Change	Change	=	Answer
1.	5	-	2	=	
2.	6	-	-7	=	
3.	-3	-	2	=	
4.	8	-	13	=	
5.	-7	-	-7	=	
6.	6	-	12	=	
7.	15	-	-7	=	
8.	-15	-	6	=	
9.	-3	-	8	=	
10.	-10	-	12	=	
11.	13	-	-12	=	
12.	14	-	-22	=	
13.	10	-	-20	=	
14.	-16	-	14	=	
15.	-25	-	25	=	
16.	6	-	-31	=	
17.	-18	-	-40	=	
18.	15	-	-61	=	
19.				=	
20.				=	
21.				=	
22.				=	
23.				=	
24.				=	

Adding & Subtracting Integers

Evaluate each expression.

1) $6 + (-7)$

2) $(-7) + 1$

3) $1 - (-4)$

4) $(-1) - 4$

5) $(-3) + (-7)$

6) $(-3) - (-2)$

7) $8 - (-6)$

8) $(-2) - (-2)$

9) $(-1) + (-6)$

10) $(-4) + 8$

11) $5 - 8$

12) $1 - 6$

13) $4 - 10$

14) $5 - -3$

15) $-2 + 7$

Name _____

Date _____ Period _____

WS "Stilwell Practice 2-5" Chains of Integers

Solve. (Don't forget to circle & add the negatives.)

1. $12 - (-5) + 5 + (-17) - 6 + 5$

_____ + _____

2. $-6 + 7 + 6 + (-7) - (-5) - 13$

_____ + _____

3. $5 - (-17) - 5 + (-17) + 8 + 9$

_____ + _____

4. $9 + 15 - 14 + (-2) + (-8) - 7$

_____ + _____

5. $8 + 8 - 5 + 9 + (-9) - (-4)$

_____ + _____

6. $8 - 10 + (-9) - (-4) - 12 - (-14)$

_____ + _____

7. $-7 + 2 + 21 - (-13) - 17 - 9$

_____ + _____

8. $4 - 7 - (-6) + (-4) - (-7) + (-7)$

_____ + _____

9. $17 - 21 + (-5) - 9 - (-16) - 7$

_____ + _____

10. $16 - 6 + 9 - (-25) + 4 + (-7)$

_____ + _____

Show work here

Over →

Name _____

Date _____ Period _____

Solve. (Don't forget to circle & add the negatives.)

11. $4 + (-8) + (-7) + 3 + 8 - (-9)$

_____ + _____

12. $50 - 11 - 4 - (-6) - 5 - (-4)$

_____ + _____

13. $6 + 28 + (-4) - 33 - (-6) - (-6)$

_____ + _____

14. $37 - 9 + 13 + (-9) + (-7) - 6$

_____ + _____

15. $10 + 40 - 31 + (-7) - 21 + (-18)$

_____ + _____

16. $-60 + 82 + (-4) - 19 + 0 - (-4)$

_____ + _____

17. $29 - 6 + (-6) - (-17) - 11 + 9$

_____ + _____

18. $6 + 3 - 7 + (-7) - (-9) + 21$

_____ + _____

19. $13 + 3 + (-7) + 5 + (-7) + (-11)$

_____ + _____

20. $5 - 4 + 19 + (-3) + (-4) + (-14)$

_____ + _____

Show work here

2-6**Skills Practice*****Multiplying Integers*****Multiply.**

1. $-4(6)$

2. $-2(-8)$

3. $12(-4)$

4. $-6(5)$

5. $-10(-9)$

6. $-(5)^2$

7. $(-5)^2$

8. $-30(5)$

9. $20(-6)$

10. $-14(-6)$

11. $(-13)^2$

12. $-7(15)$

ALGEBRA Simplify each expression.

13. $-3(4y)$

14. $7(-3x)$

15. $7(5g)$

16. $7(7w)$

17. $3(-3y)$

18. $-2(-10h)$

ALGEBRA Evaluate each expression if $g = -5$, $h = -3$, and $k = 4$.

19. $-3g$

20. $5h$

21. $7gk$

22. $-2gh$

23. $-10h$

24. $-2h^2$

2-8**Skills Practice*****Dividing Integers*****Divide.**

1. $-15 \div 3$

2. $-24 \div (-8)$

3. $22 \div (-2)$

4. $-49 \div (-7)$

5. $-8 \div (-8)$

6. $\frac{36}{-4}$

7. $225 \div (-15)$

8. $\frac{0}{-9}$

9. $-38 \div 2$

10. $\frac{64}{4}$

11. $-500 \div (-50)$

12. $-189 \div (-21)$

ALGEBRA Evaluate each expression if $m = -32$, $n = 2$, and $p = -8$.

13. $m \div n$

14. $p \div 4$

15. $p^2 \div m$

16. $m \div p$

17. $\frac{-p}{n}$

18. $p \div n^2$

19. $\frac{p^2}{n^2}$

20. $\frac{18 - n}{p}$

21. $m \div (np)$

22. $\frac{m}{p} + n$

Name _____ Date _____ Period _____

Integer Worksheet 1

Add, Subtract, Multiply, or Divide.

1. $-5 + 11$ _____

2. $14 + -3$ _____

3. $72 + -68$ _____

4. $-6 - (-10)$ _____

5. $9 - 16$ _____

6. $-7 - 2$ _____

7. -6×2 _____

8. $3(-7)$ _____

9. -8×-4 _____

10. $18 \div (-6)$ _____

11. $-25 \div -5$ _____

12. $\frac{36}{-4}$ _____

13. $5 + -1$ _____

14. $-22 + 10$ _____

15. $-12 + (-13)$ _____

16. $5 - (-3)$ _____

17. $8 - 20$ _____

18. $-3 - 14$ _____

19. -8×-5 _____

20. $-2 \times -3 \times -4$ _____

21. $-11(-7)$ _____

22. $-18 \div -2$ _____

23. $42 \div -6$ _____

24. $\frac{-12}{4}$ _____

Compare the integers with $<$ or $>$

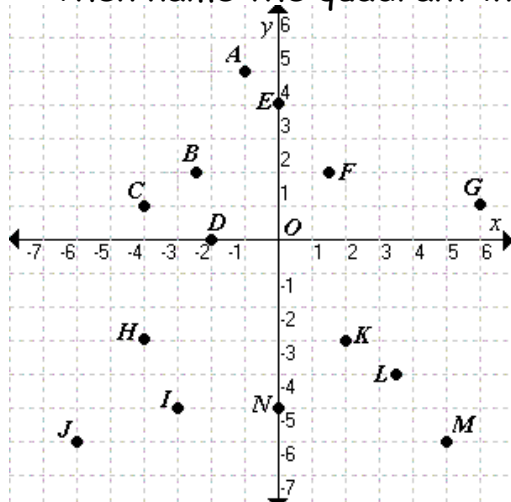
25. -18 _____ -25

26. -4 _____ 4

27. 0 _____ -22

Name the ordered pair for each point graphed below.

Then name the quadrant in which each point is located.



28. H _____, Quadrant: _____

29. I _____, Quadrant: _____

30. D _____, Quadrant: _____

Name _____ Date _____ Period _____

Integer Worksheet 2

1. a loss of \$287 _____

2. $|-46|$ _____

3. $|-15| + |-1|$ _____

4. Compare -30 _____ -50

5. Compare -8 _____ 0

6. Compare -8 _____ 8

7. Order the integers
2, -6, -10, 20, and 4 from
least to greatest _____

Add, Subtract, Multiply, or Divide.

8. $\frac{40}{-10}$ _____

9. $7 - (-4)$ _____

10. $(-6)^2$ _____

11. $-3 + (-21)$ _____

12. $(-1)(-4)(-2)(-1)$ _____

13. $(-8)(8)$ _____

14. $-7 + 2 + 21 - (-13) - 17 - 9$ _____

15. $45 \div (-9)$ _____

16. $17 - 21 + (-5) - 9 - (-16) - 7$ _____

Evaluate each expression if

$a = -3, b = 10, c = -4$

17. $8 - b$ _____

18. $16 \div c$ _____

19. $9 + c$ _____

20. $-5(3c)$ _____

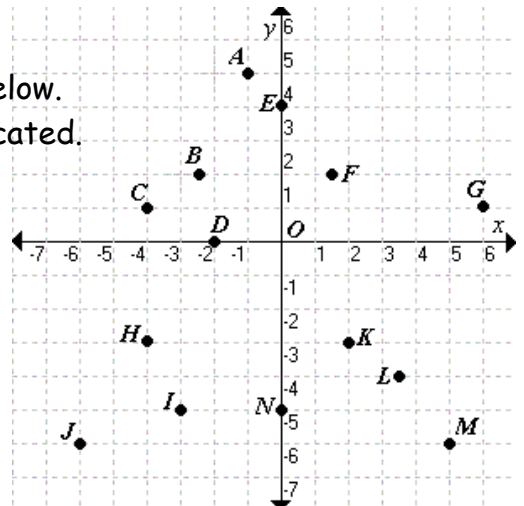
21. $ab \div 6$ _____

22. $a + b$ _____

23. $a - c$ _____

24. $a + b + c$ _____

Name the ordered pair for each point graphed below.
Then name the quadrant in which each point is located.



25. E _____, Quadrant: _____

26. J _____, Quadrant: _____

27. K _____, Quadrant: _____

Chapter 2: Integers & Absolute Value

Bringing It All Together #1

Vocabulary Check

State whether each sentence is *true* or *false*. If *false*, replace the underlined word or number to make a true sentence.

1. Integers less than zero are positive integers.

2. The origin is the point where the x -axis and y -axis intersect.

3. The absolute value of 7 is -7.

4. The sum of two negative integers is positive.

5. The x -coordinate of the ordered pair of (2, -3) is -3.

6. The product of a positive and a negative integer is negative.

7. The x -axis and the y -axis separate the plane into four coordinates.

8. The quotient of two negative integers is negative.

2-1 Integers and Absolute Value (pp. 80-83)

Write an integer for each situation.

9. a loss of \$150 _____
10. 350 feet above sea level _____
11. a gain of 8 yards _____
12. 12° F below 0 _____
13. Mavis drank 48 milliliters of apple juice before replacing the carton in the refrigerator. Write an integer that shows the change in the volume of juice in the carton. _____

Evaluate each expression.

14. $|100| =$ _____
15. $|-32| =$ _____
16. $|-16| + |9| =$ _____

2-2 Comparing and Ordering Integers (pp. 84-87)

Replace each \bigcirc with $<$ or $>$ to make a true sentence.

17. $-3 \bigcirc -9$

20. $|-10| \bigcirc |-13|$

18. $8 \bigcirc -12$

21. $25 \bigcirc |8|$

19. $-3 \bigcirc 3$

22. $0 \bigcirc |-4|$

Order the integers from least to greatest.

23. $\{-3, 8, -10, 0, 5, -12, 9\} =$ _____

24. $\{-21, 19, -23, 14, -32, 25\} =$ _____

25. $\{-17, -18, 18, 15, -16, 16\} =$ _____

26. The high temperatures in degrees Celsius for ten cities were 0, 10, -5, 12, 25, -6, 20, -10, 5, and 2. Order these temperatures from least to greatest. _____

2-3 The Coordinate Plane (pp. 88-92)

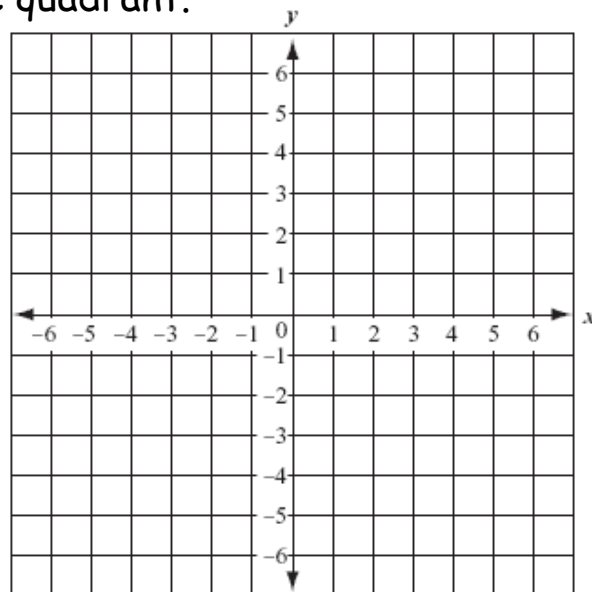
Graph and label each point. Name the quadrant.

27. $E(1, -4) =$ _____

28. $F(-4, 2) =$ _____

29. $G(-2, -3) =$ _____

30. $H(4, 0) =$ _____



2-4 Adding Integers (pp. 95-99)

Add.

31. $-6 + 8 =$ _____

32. $-4 + (-9) =$ _____

33. $7 + (-12) =$ _____

34. $-18 + 18 =$ _____

Evaluate each expression if $a = -4$, $b = -7$, and $c = 5$

35. $a + b =$ _____

36. $-8 + c =$ _____

Name _____ Date _____ Pd _____

2-5 Subtracting Integers (pp. 103-106)

Subtract.

37. $-5 - 8 =$ _____

39. $5 - (-2) =$ _____

38. $3 - 6 =$ _____

40. $-4 - (-8) =$ _____

Evaluate each expression if $a = -4$, $b = -7$, and $c = 5$

41. $c - a =$ _____

42. $a - b =$ _____

2-6 Multiplying Integers (pp. 107-111)

Multiply.

43. $-4(3) =$ _____

45. $-5(-7) =$ _____

44. $8(-6) =$ _____

46. $-2 \times -40 \times -3 =$ _____

Evaluate each expression if $a = -4$, $b = -7$, and $c = 5$

47. $ab =$ _____

48. $bc =$ _____

2-8 Dividing Integers (pp. 114-118)

Divide.

49. $-45 \div (-9) =$ _____

51. $-12 \div 6 =$ _____

50. $36 \div (-12) =$ _____

52. $-81 \div (-9) =$ _____

Evaluate each expression if $a = -4$, $b = -7$, and $c = 5$

53. $35 \div b =$ _____

54. $-4 \div a =$ _____

Solve the chain of integers by adding and subtracting.

55. $17 - 21 + (-5) - 9 - (-16) - 7$

_____ + _____

56. $9 + (-7) + 35 - 23 + 34 + (-6)$

_____ + _____

**FINALLY
DONE**



Name _____ Date _____ Period _____

Chapter 2: Integers & Absolute Value

Bringing It All Together #2

1. 60 ft above sea level _____

2. $|-12|$ _____

3. $|3| + |-12|$ _____

4. Compare -7 _____ -5

5. Compare 0 _____ -5

6. Compare 5 _____ -5

7. Order the integers
 $-3, 6, 4, 10,$ and -8 from least
to greatest _____

Add, Subtract, Multiply, or Divide.

8. $\frac{60}{-3}$ _____

9. $8 - (-5)$ _____

10. $(-3)^2$ _____

11. $-4 + (-13)$ _____

12. $(-1)(-2)(-3)(-4)$ _____

13. $(-12)(12)$ _____

14. $12 - (-5) + 5 + (-17) - 6 + 5$ _____

15. $54 \div (-9)$ _____

16. $-6 + 7 + 6 + (-7) - (-5) - 13$ _____

Evaluate each expression if

$x = -5, y = 7, z = -2$

17. $8 - y$ _____

18. $16 \div z$ _____

19. $9 + z$ _____

20. $-5(3z)$ _____

21. $xy \div 7$ _____

22. $x + y$ _____

23. $x - z$ _____

24. $x + y + z$ _____

Name the ordered pair for each point graphed below.
Then name the quadrant in which each point is located.

25. G _____, Quadrant: _____

26. M _____, Quadrant: _____

27. N _____, Quadrant: _____

