Name $\qquad$ Date $\qquad$ Pd $\qquad$

## Chapter 2 (Operations with Integers) Bringing It All Together \#1

## Vocabulary Check

Define the following vocabulary words:

1) Absolute Value: $\qquad$
2) Quadrant: $\qquad$
State whether the statement is true or false.
If false, replace the underlined word or number to make a true sentence.
3) Two numbers with the same absolute values but different signs are opposites. $\qquad$
4) A positive number is a number less than zero. $\qquad$
5) Numbers like $\underline{-6}$ and $-\underline{0} 5$ examples of integers. $\qquad$
6) The set of quadrants includes positive whole numbers, their opposites, and zero.

## 2-1 Integers and Absolute Value (pp. 61-66)

Compare the integers using <, >, or $=$
7) 5 $\qquad$ $-5$
8) $|16|$ $\qquad$ $|-14|$
9) 7 $\qquad$ $|-7|$
10) -3 $\qquad$ 1
11) -14 $\qquad$ 12) 0 $\qquad$ $|-5|$

## 2-2 Adding Integers (pp. 69-74)

Find each sum.
13) $-5+-1=$ $\qquad$
15) $2+8+-3=$ $\qquad$
17) $-12+6+-5=$ $\qquad$
16) $-7+5+-4=$ $\qquad$
14) $-6+10=$ $\qquad$
18) $-9+3+-3+4+5+-6+12=$ $\qquad$

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## 2-3 Subtracting Integers (pp. 76-80)

Find each difference.
19) $7-13=$ $\qquad$ 20) $8--3=$ $\qquad$
21) $-4-6=$ $\qquad$ 22) $-1--4=$ $\qquad$
23) $3-5--2-8-6--7=$ $\qquad$ 24) $-12-11--13-5--14-10=$ $\qquad$

2-4 Multiplying Integers (pp. 83-88)
Find each product.
$\qquad$
27) $(-7)^{2}=$ $\qquad$
29) $-1 \times 5 \times-2 \times 3 \times-1=$ $\qquad$

2-5 Dividing Integers (pp. 90-95)
Find each quotient.
31) $-16 \div-4=$
33) $-56 \div-8=$ $\qquad$
$\qquad$
26) $-7(-9)=$ $\qquad$
28) $3 \times-4 \times 2 \times-5 \times(-1)^{5}=$ $\qquad$
30) $-2 x-2 x-2 x-2 \times 2=$
35) $(42 \div-7) \div(-9 \div-3)=$ $\qquad$
32) $170 \div-10=$ $\qquad$
36) $(-50 \div-10) \div(-35 \div 7)=$ $\qquad$
(pp. 96-100) 2-6 Graphing In 4 Quadrants Graph and label each point on a coordinate plane. Name the quadrant in which each point is located.
37) $M(-3,3)$ $\qquad$ 38) A $(5,2)$ $\qquad$
39) $T(-1,-4)$ $\qquad$ 40) $H(2,0)$ $\qquad$


Name $\qquad$ Date $\qquad$
Tell whether each scatter plot shows a positive, negative, or no relationship.
41) $\qquad$

42) $\qquad$

43) $\qquad$


SCIENCE- Scientists believe there may be a relationship between temperatures and the number of chirps produced by crickets. The table gives the temperature and the number of chirps per minute for several cricket samples.
44) Make a scatter plot for the data


| Temperature ('F) | Chirps/min |
| :---: | :---: |
| 71 | 138 |
| 68 | 97 |
| 75 | 152 |
| 80 | 158 |
| 60 | 81 |
| 75 | 155 |
| 84 | 165 |

45) Does there appear to be a relationship between temperatures and chirps? If so, what type of relationship is there?
46) Graph \& Find the coordinates of the verticies of the image of $\triangle P Q R$ translated 3 units to the right and 4 units down.

47) The vertices of figure $S T U V$ are $S(-3,2), T(-2,4)$, $U(3,3)$, and $V(2,1)$. Graph the figure and its image after a reflection over the $x$-axis.


Name $\qquad$ Date $\qquad$ Pd $\qquad$

## Chapter 2 Answer Key B.I.T \#1

## Vocabulary Check

Define the following vocabulary words:

1) Absolute Value: The distance a number is from zero on a number line
2) Quadrant: One of four regions into which the $x$-axis and $y$-axis separate the coordinate plane
State whether the statement is true or false.
If false, replace the underlined word or number to make a true sentence.
3) Two numbers with the same absolute values but different signs are opposites. true
4) A positive number is a number less than zero. false; more
5) Numbers like $\underline{-6}$ and $\underline{-0.5}$ examples of integers. false; -6 and 5
6) The set of quadrants includes positive whole numbers, their opposites, and zero. false; integers

## 2-1 Integers and Absolute Value (pp. 61-66)

Compare the integers using <, >, or $=$
7) $5 \geq-5$
8) $|16| \geq|-14|$
9) 7 ニ $|-7|$
10) $-3 \leq 1$
11) $-14 \geq-22$
12) $0 \leq|-5|$

2-2 Adding Integers (pp. 69-74)
Find each sum.
13) $-5+-1=-6$
14) $-6+10=\underline{4}$
15) $2+8+-3=7$
16) $-7+5+-4=-6$
17) $-12+6+-5=-11$
18) $-9+3+-3+4+5+-6+12=\underline{6}$

Name $\qquad$ Date $\qquad$ Pd
2-3 Subtracting Integers (pp. 76-80)
Find each difference.
19) $7-13=\underline{-6}$
20) $8--3=11$
21) $-4-6=-10$
22) $-1--4=\underline{3}$
23) $3-5--2-8-6--7=-7$
24) $-12-11--13-5--14-10=-11$

2-4 Multiplying Integers (pp. 83-88)
Find each product.
25) $-2 \times 3=\underline{-6}$
26) $-7(-9)=\underline{63}$
27) $(-7)^{2}=49$
28) $3 \times-4 \times 2 \times-5 \times(-1)^{5}=-120$
29) $-1 \times 5 \times-2 \times 3 \times-1=-\mathbf{- 3 0}$
30) $-2 x-2 x-2 x-2 \times 2=32$

2-5 Dividing Integers (pp. 90-95)
Find each quotient.
31) $-16 \div-4=\underline{4}$
33) $-56 \div-8=\underline{7}$
32) $170 \div-10=-17$
34) $\frac{3}{4} \div-0.75=-1$

Note: Not integers ©
35) $(42 \div-7) \div(-9 \div-3)=\underline{-2}$
36) $(-50 \div-10) \div(-35 \div 7)=-1$
(pp. 96-100) 2-6 Graphing In 4 Quadrants Graph and label each point on a coordinate plane. Name the quadrant in which each point is located.
37) $M(-3,3)$ Quad II 38) $A(5,2)$ Quad I
39) $T(-1,-4)$ Quad III 40) $H(2,0) \underline{x}$-axis


Name $\qquad$ Date $\qquad$ Pd $\qquad$
Tell whether each scatter plot shows a positive, negative, or no relationship.
41) No Relationship

42) Positive Relationship

43) Negative Relationship


SCIENCE- Scientists believe there may be a relationship between temperatures and the number of chirps produced by crickets. The table gives the temperature and the number of chirps per minute for several cricket samples.
44) Make a scatter plot for the data

45) Does there appear to be a relationship between temperatures and chirps? If so, what type of relationship is there?
YES, there is a Positive relationship between the temperature and the number of chirps of crickets.
46) Graph \& Find the coordinates of the verticies of the image of $\triangle P O R$ translated 3 units to the right and 4 units down.

47) The vertices of figure $S T U V$ are $S(-3,2), T(-2,4)$, $U(3,3)$, and $V(2,1)$. Graph the figure and its image after a reflection over the $x$-axis.


