LESSON 12-4 Puzzles, Twisters & Teasers

Hard to Swallow!

Find and circle words from the list in the word search (horizontally, vertically or diagonally). Find a word that answers the riddle. Circle it and write it on the line.

inequality compound value symbol graph
less greater equal more fewer

I	N	E	Q	U	A	L	I	T	Y	V	F	W
L	Z	X	C	V	M	N	N	M	K	I	A	E	N
E	A	S	D	F	G	O	J	K	L	L	L	W	J
S	W	E	R	K	C	F	R	T	G	U	E	K
S	Y	M	B	O	L	M	K	E	U	E	R	U
V	F	R	G	R	A	P	H	B	G	T	N	O
Y	H	N	J	E	Q	U	A	L	C	D	E	P
H	J	G	R	E	A	T	E	R	A	S	E	C
A	S	D	F	C	O	M	P	O	U	N	D	S
L	I	M	E	S	T	O	N	E	N	M	J	V
Q	W	E	R	T	Y	U	I	O	P	L	K	X

What kind of stone is the most sour? limestone



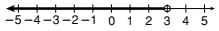
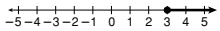
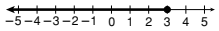
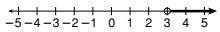
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LESSON 12-5 Practice A

Solving Inequalities by Adding or Subtracting

Solve. Then match each solution set with its graph.

1. $r - 1 > 2$ $r > 3$
2. $m + 3 \le 6$ $m \le 3$
3. $x - 4 < -1$ $x < 3$
4. $k + 2 \ge 5$ $k \ge 3$

A. 
B. 
C. 
D. 

Solve. Check each answer.

5. $a + 7 > 2$ $a > -5$
6. $h - 9 \le 3$ $h \le 12$
7. $v - 8 < -16$ $v < -8$
8. $14 + y > -7$ $y > -21$
9. $j - 17 \ge -8$ $j \ge 9$
10. $t + 25 \le 9$ $t \le -16$
11. $w + 23 < -35$ $w < -58$
12. $f + 39 \ge 11$ $f \ge -28$
13. $54 + b \le 45$ $b \le -9$

14. Friday's high temperature was 20°F. Saturday's high temperature was forecast to be no more than 8°F warmer than Friday's high temperature. According to the forecast, what are the possible high temperatures for Saturday?

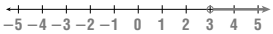
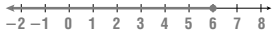
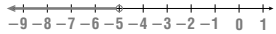
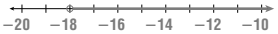
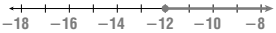
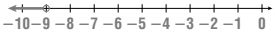
The possible high temperature is at most 28°F.

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LESSON 12-5 Practice B

Solving Inequalities by Adding or Subtracting

Solve. Then graph each solution set on a number line.

1. $y - 5 > -2$ $y > 3$ 
2. $n + 5 \le 11$ $n \le 6$ 
3. $x + 4 < -1$ $x < -5$ 
4. $h + 20 > 2$ $h > -18$ 
5. $p + 9 \ge -3$ $p \ge -12$ 
6. $s - 7 < -16$ $s < -9$ 

Solve. Check each answer.

7. $41 + g > 27$ $g > -14$
8. $w + 23 \ge -18$ $w \ge -41$
9. $a + 15 \le 9$ $a \le -6$
10. $z + 27 < 16$ $z < -11$
11. $-3 \le t + 17$ $-20 \le t$
12. $78 \ge b + 64$ $14 \ge b$

13. In order for a field trip to be scheduled, at least 30 students must sign up. So far, 23 students have signed up. At least how many more students must sign up in order for the field trip to be scheduled?

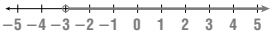
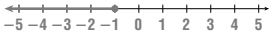
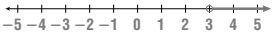
At least 7 more students must sign up.

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LESSON 12-5 Practice C

Solving Inequalities by Adding or Subtracting

Solve. Then graph each solution set on a number line.

1. $a - (-5) > 2$ $a > -3$ 
2. $m - 3 \le 7 - 11$ $m \le -1$ 
3. $x + 4 > -1 + 8$ $x > 3$ 

Solve. Check each answer.

4. $j - 14 + 20 > 25$ $j > 19$
5. $w - 9 - (-1) \ge 3$ $w \ge 11$
6. $r - 17 < 14 - 16$ $r < 15$
7. $24 - 11 + k > 27 - 30$ $k > -16$
8. $x - (-13) + 18 \le 8 - (-9)$ $x \le -14$
9. $9 - 15 \le b + 16$ $b \ge -22$
10. $t - 5.3 + 2.8 < 9.5 - 11.2$ $t < 0.8$
11. $s + 6.2 - 5.9 \ge 1.3 + 3.7$ $s \ge 4.7$
12. $1\frac{1}{2} + z \le 2\frac{7}{8} - 4\frac{3}{4}$ $z \le -3\frac{3}{8}$
13. $n + \frac{1}{6} > 1\frac{1}{3} - 2$ $n > -\frac{5}{6}$

14. Nine members of the drama club are going to New York to see a Broadway play as a group. The total cost for the tickets, including a $15.00 handling fee, will be no more than $285.00. What is the maximum cost of each ticket?

$30.00

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