NAME: ______ PERIOD: _____ DATE: _____

Homework Problem Set

Solve each absolute value equation.





11. Lindsey is making some home-made toffee. The recipe says that she must bring the mixture to a boil at 285 degrees. If she is 7 degrees above or below, the toffee should turn out fine.

Write and solve an <u>absolute value equation</u> to model the minimum and maximum temperatures that would still create yummy toffee.

|x-285| = 7



Maxtemp 292



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Spiral REVIEW—True and False Statements

For Problems 12–17, let x = -3 and $y = \frac{2}{3}$. Determine whether the following equations are true, false, or neither true nor false.

12.
$$xy = -2$$

13. $x + 3y = -1$
14. $x + z = 4$
-3 + 3(3) = -1
-3 + 3(3) = -1
-3 + 2 = 4
-3 + 2 = 4
-3 + 2 = 4
-3 + 2 = 4
Neither
15. $9y = -2x$
16. $\frac{y}{x} = -2$
17. $\frac{-\frac{2}{x}}{y} = -1$

Spiral REVIEW—Solving Equations

For Problems 18–21, which values of x will make the equation a true statement?

18.
$$x + 2 = 9$$

$$x + 2^2 = -9$$

20. -12t = 12



21. 12t = 24

REVIEW—Translate

For each description, match the expression, equation or inequality.

F	22. Four is less than a number	A. <i>n</i> + 4 = 6
A	23. Four more than a number is 6	B. 4≤n
H	24. Four is greater than or equal to a number minus three	C. 4 • n = 3
С	25. Four multiplied by a number is equal to three	D. 3 + 4 = n
B	26. Four is less than or equal to a number	E. 4 < n
F	27. Four is equal to three less a number	F. 4 = <i>n</i> − 3
D	28. Four more than three is equal to a number	G. 4 > n • 3
G	29. Four is greater than a number multiplied by three	H. 4≥n−3