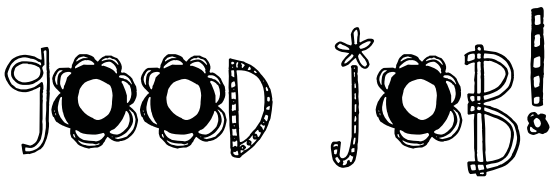
Translate... and Solve!

1 "Twice a number plus 4 is 8"		2 "The product of 4 and a number plus 17 is 5."	
3 "Twice a number minus 5 is 7"		4 "The quotient of a number and 6 minus 3 is 1"	
5 "Two more than 4 times a number is -18"		6 "Seven less than twice a number is 5"	
7 "Five less than the quotient of a number and 3 is -7"		8 "One subtracted from the product of 4 and a number is 11"	
9 "The quotient of a number and -9, increased by 10 is 11"		10 "Half of a number decreased by 8 is -3"	

11 "The sum of three-fourths of a number and 1 is -5"		12 "Ten minus one-third of a number is 4"	
13 "Four more than the quotient of a number and 3 is at least 9"		14 "Negative three times a number increased by seven is less than -11"	
15 "Seven more than one-sixth of a number is greater than three"		16 "The sum of 5 and the twice a number is at most 27"	
17 "Four less than two-fifths of a number is no less than 2"		18 "Three-fourths of a number decreased by 10 is greater than or equal 5"	
19 "The quotient of a number and -5, increased by 7 is at minimum 1"		20 "One less than half a number is a maximum of 19"	



Translate... and Solve!

1 "Twice a number plus 4 is 8"

$2n + 4 = 8$
$-4 \quad -4$
$\frac{2n}{2} = \frac{4}{2}$
$\boxed{n = 2}$

2 "The product of 4 and a number plus 17 is 5."

$4n + 17 = 5$
$-17 \quad -17$
$\frac{4n}{4} = \frac{-12}{4}$
$\boxed{n = -3}$

3 "Twice a number minus 5 is 7"

$2n - 5 = 7$
$+5 \quad +5$
$\frac{2n}{2} = \frac{12}{2}$
$\boxed{n = 6}$

4 "The quotient of a number and 6 minus 3 is 1"

$\frac{n}{6} - 3 = 1$
$+3 \quad +3$
$6 \cdot \frac{n}{6} = 4 \cdot 6$
$\boxed{n = 24}$

5 "Two more than 4 times a number is -18"

$4n + 2 = -18$
$-2 \quad -2$
$\frac{4n}{4} = \frac{-20}{4}$
$\boxed{n = -5}$

6 "Seven less than twice a number is 5"

$2n - 7 = 5$
$+7 \quad +7$
$\frac{2n}{2} = \frac{12}{2}$
$\boxed{n = 6}$

7 "Five less than the quotient of a number and 3 is -7"

$\frac{n}{3} - 5 = -7$
$+5 \quad +5$
$3 \cdot \frac{n}{3} = -2 \cdot 3$
$\boxed{n = -6}$

8 "One subtracted from the product of 4 and a number is 11"

$4n - 1 = 11$
$+1 \quad +1$
$\frac{4n}{4} = \frac{12}{4}$
$\boxed{n = 3}$

9 "The quotient of a number and -9, increased by 10 is 11"

$\frac{n}{-9} + 10 = 11$
$-10 \quad -10$
$-9 \cdot \frac{n}{-9} = 1 \cdot -9$
$\boxed{n = -9}$

10 "Half of a number decreased by 8 is -3"

$\frac{1}{2}n - 8 = -3$
$+8 \quad +8$
$2 \cdot \frac{1}{2}n = 5 \cdot 2$
$\boxed{n = 10}$

11 "The sum of three-fourths of a number and 1 is -5"	$\frac{3}{4}n + 1 = -5$ $-1 \quad -1$ $\frac{4}{3}\cdot\frac{3}{4}n = -6 \cdot \frac{4}{3}$ $\boxed{n = -8}$	12 "Ten minus one-third of a number is 4"	$10 - \frac{1}{3}n = 4$ $-10 \quad -10$ $-3 \cdot -\frac{1}{3}n = -6 \cdot -3$ $\boxed{n = 18}$
13 "Four more than the quotient of a number and 3 is at least 9"	$4 + \frac{n}{3} \geq 9$ $-4 \quad -4$ $3 \cdot \frac{n}{3} \geq 5 \cdot 3$ $\boxed{n \geq 15}$	14 "Negative three times a number increased by seven is less than -11"	$-3n + 7 < -11$ $-7 \quad -7$ $\frac{-3n}{-3} < \frac{-18}{-3}$ $\boxed{n > 6}$
15 "Seven more than one-sixth of a number is greater than three"	$7 + \frac{1}{6}n > 3$ $-7 \quad -7$ $6 \cdot \frac{1}{6}n > -4 \cdot 6$ $\boxed{n > -24}$	16 "The sum of 5 and the twice a number is at most 27"	$5 + 2n \leq 27$ $-5 \quad -5$ $\frac{2n}{2} \leq \frac{22}{2}$ $\boxed{n \leq 11}$
17 "Four less than two-fifths of a number is no less than 2"	$\frac{2}{5}n - 4 \geq 2$ $+4 \quad +4$ $\frac{5}{2}\cdot\frac{2}{5}n \geq 6 \cdot \frac{5}{2}$ $\boxed{n \geq 15}$	18 "Three-fourths of a number decreased by 10 is greater than or equal 5"	$\frac{3}{4}n - 10 \geq 5$ $+10 \quad +10$ $\frac{4}{3}\cdot\frac{3}{4}n \geq 15 \cdot \frac{4}{3}$ $\boxed{n \geq 20}$
19 "The quotient of a number and -5, increased by 7 is at minimum 1"	$\frac{n}{-5} + 7 \geq 1$ $-7 \quad -7$ $-5 \cdot \frac{n}{-5} \geq -6 \cdot -5$ $\boxed{n \leq 30}$	20 "One less than half a number is a maximum of 19"	$\frac{1}{2}n - 1 \leq 19$ $+1 \quad +1$ $2\frac{1}{2}n \leq 20 \cdot 2$ $\boxed{n \leq 40}$

GOOD JOB!