Solve the following inequalities and graph the solution set on the number line.
1.


4.

5. $\frac{-12}{3} \neq \frac{3 g}{3}$
$-4 \leq 9$




8. | $2(b+4)$ | $\neq 10$ |
| ---: | :--- |
| $2 b+8$ | $\geq 10$ |
| $\frac{-8}{2}$ | $\frac{-8}{2}$ |
| 2 | $\geq \frac{2}{2}$ |
| $b \geq 1$ |  |



Solve the following inequalities and graph the solution set on the number line.


## SELECT ALL

13. Select all values of $x$ that make $4 x+3 \notin 11$ a true statement.
(A) $x=0$
(B) $x=1$
(C) $x=2$
(D) $x=3$

14. Select all values of $n$ that make $\frac{n}{2}+5 \ngtr 7$ a true statement.
(A) $n=2$
(B) $n=4$
(C) $n=6$
(D) $n=8$

15. Select all values of $x$ that make $-11 \neq 3 x+4$ a true statement.
(A) $x=-3$
(B) $x=-4$
(C) $x=-5$
(D) $x=-6$

| -4 | -4 |
| ---: | ---: |
| $\frac{-15}{3}$ | $=\frac{3 x}{3}$ |

$-5 \geq x$
$x \leq-5$
16. Select all values of $y$ that make $\frac{1}{3} y-5 t-3$ a true statement.
(A) $y=-3$
(B) $y=0$
(C) $y=3$
(D) $y=6$


## Translate to an inequality.

17. The quotient of a number $d$ and four is greater than six.

$$
\frac{d}{4}>6
$$

18. The sum of 5 and a number $n$ is less than or equal 7.

$$
5+n \leq 7
$$

19. Twice a number increased by two is at least twelve.

$$
2 n+2 \geq 12
$$

