

Name : .....

Score : ..... Date : .....

## Solving Compound Inequalities

Solve each inequality and graph its solution.

①  $2h + 3 > -1$



②  $7 + 2a > 9$  or  $4a > 12$



③  $-10 - n < -12$  or  $9 + 4n \geq 21$



④  $-x \leq 2$  or  $2x - 3 \geq 5$



⑤  $-3 \leq \frac{q}{2} < 0$



⑥  $8p + 5 < -75$  and  $6 + 8p < 30$



⑦  $1 - 2 < -8$  or  $\frac{1}{8} > 1$



⑧  $3g > 15$  or  $2g \leq -4$



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# Solving Compound Inequalities

## Answers

①  $2h + 3 > -1$

$h > -2$



②  $7 + 2a > 9$  or  $4a > 12$

$a > 1$  or  $a > 3$



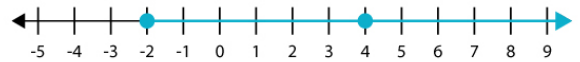
③  $-10 - n < -12$  or  $9 + 4n \geq 21$

$n > 2$  or  $n \geq 3$



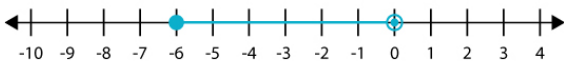
④  $-x \leq 2$  or  $2x - 3 \geq 5$

$x \geq -2$  or  $x \geq 4$



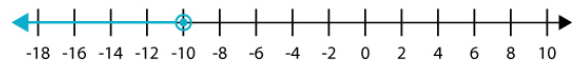
⑤  $-3 \leq \frac{q}{2} < 0$

$-6 \leq q < 0$



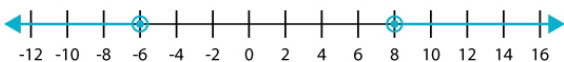
⑥  $8p + 5 < -75$  and  $6 + 8p < 30$

$p < -10$  and  $p < 3$



⑦  $l - 2 < -8$  or  $\frac{l}{8} > 1$

$l < -6$  or  $l > 8$



⑧  $3g > 15$  or  $2g \leq -4$

$g > 5$  or  $g \leq -2$

