Name		Da

Period



## COMPOUND INEQUALITIES WORKSHEET

Solve each inequality and graph its solution.

2. 
$$-5 \le 3 - 2x < 11$$



4. 
$$2r+8>16-2r$$
 and  $7r+21< r-9$ 

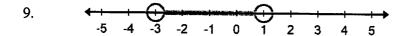


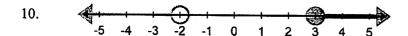
6. 
$$4m-5 > 7$$
 or  $4m-5 < -9$ 

8. 
$$6-c>c$$
 or  $3c-1< c+13$ 



Write a compound inequality for each solution set shown below.





Create a compound inequality for the following word problems.

- 13. Nine less than a number is no more than 8 and is no less than 3.
- 14. The sum of four times a number and eight is between zero and twelve.
- 15. One half a number increased by three is greater than zero or less than or equal to negative three.
- 16. Each type of fish thrives in a specific range of temperatures. The optimum temperatures for sharks range from 18 degrees Celsius to 22 degrees Celsius. Write an inequality that represents the temperatures where sharks will NOT thrive.
- 17. About 20% of the time you sleep is spent in rapid eye movement (REM) sleep, which is associated with dreaming. If an adult sleeps 7 to 8 hours, how much time is spent in REM sleep?
- 18. A store is offering a \$30 mail in rebate on all color printers. Luis is looking at different color printers that range in price from \$175 to \$260. How much can he expect to spend after the rebate?

Period

Date\_

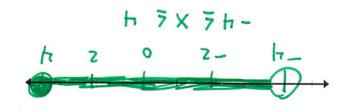
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## COMPOUND INEQUALITIES WORKSHEET

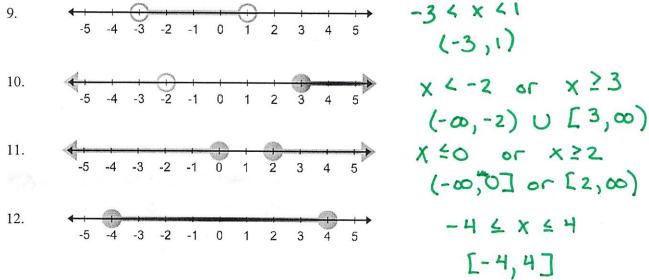
Solve each inequality and graph its solution.

4C+8>16 GAD 6C+216-9

4. 2r + 8 > 16 - 2r and 7r + 21 < 8 + 92



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THE Let 
$$h = hours in sleep$$
 $7 < 5h < 8 \rightarrow 1.4 < h < 1.6$ 

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