

Hurricane George is 250 miles from the coast of South Padre Island, and is approaching the coast at a rate of 20 miles per hour.

1. Make a table to show the relationship between the number of hours and the distance from the coast.

Hours	Process	Miles
0		
1		
2		
3		

2. Write an expression describing the relationship between the number of hours and the distance from the coast.

Create a table using the calculator to find the answer for the following questions. Make sure to put the answer in the second space of the table.

3. If at least 3 hours have elapsed, what is the distance of the hurricane from the coast?

hours	miles

4. If the hurricane is no more than 75 miles from the coast, how many (whole) hours have elapsed for the hurricane to get this far?

hours	miles
	75

Represent the situations below with both a table and an inequality and solve.

5. When will the hurricane be no more than 100 miles from the coast?

hours	miles
	100

6. What is the distance from the coast if no more than 10 hours have elapsed?

hours	miles


7. How many hours will it take for the hurricane to be less than 15 miles from the coast?

hours	miles
	15

Solve and graph. Then write the solution using a complete sentence.

8. $7 - x > 6$ 

9. $9x - 5x + 2 \leq 16$ 

10. $9x - 12 \geq 80 + 8x$ 

11. $-\frac{x}{2} + 20 \leq 4$ 

12. $3(x + 2) < 4x + 5$ 

13. Nine times a number is no more than 81.



14. Four times a number plus 12 is greater than twenty minus 8.



15. Thirty minus a number is at least four.

