6th Grade
Math

Name Key

Find the rule for each function table

14.

Input (x)	Output (y)
2	5
5	17
7	25

$m = \frac{12}{3} = \frac{8}{2} = 4$

$y = 4x - 3$

$y = 4x + ?$

$5 = 4(2) + ?$

$5 = 8 + ?$

subtract 3!

15.

Input (x)	Output (y)
8	÷4 2
24	÷4 6
36	÷4 9

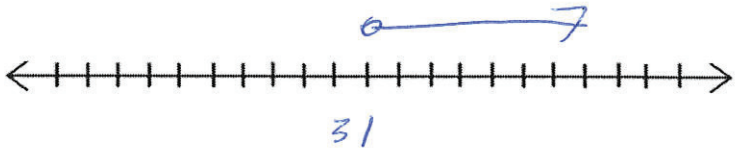
$y = \frac{x}{4}$

Solve and graph each inequality

16. $d - 13 > 18$

$+13 \quad +13$

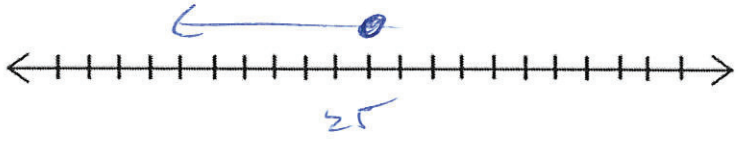
$d > 31$



17. $3x \leq 75$

$\frac{}{3} \quad \frac{}{3}$

$x \leq 25$



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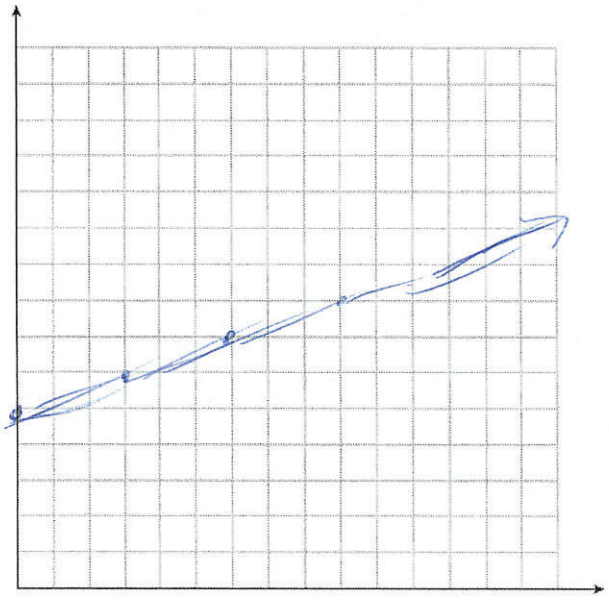
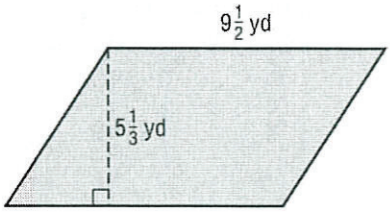
18. Graph the equation $y = \frac{1}{3}x + 4$



Find the area of each figure

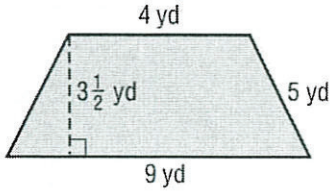
19.



$A = bh = (9\frac{1}{2})(5\frac{1}{3})$

$= (\frac{19}{2})(\frac{16}{3}) = \frac{152}{3} = 50\frac{2}{3}$ yd²

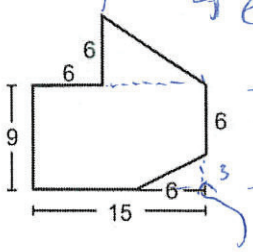
20.



$A = \frac{1}{2}(4+9)(3\frac{1}{2})$

$= \frac{1}{2}(13)(\frac{7}{2}) = \frac{91}{4} = 22\frac{3}{4}$ yd²

21.



$\frac{9 \cdot 6}{2} = \frac{54}{2} = 27$

$15 \times 9 = 135$

$\frac{1}{2}(6)(3) = 9$

$135 + 27 + 9 = 153$ units²