

**TMT First 20 ACT Prep V4**

1. Solve  $-2n - 10 < -1$  [82]
2. Multiply  $(x - 9)^2$  [61]
3. Find the slope if given two points, (-7, 2) and (6,4)[210]
4. Evaluate  $f(x) = -2x^2 - x - 1$  if  $x = -2$  [110]
5. Simplify  $\frac{1}{4} \cdot \frac{7}{6}$  [42]
6. Simplify  $\frac{-5 \pm 5\sqrt{2}}{15}$  [214]
7. Multiply  $(2x - 9)(x + 3)$  [60]
8. Solve. Show 3+ steps of work [89]  
 $-5 - (x - 2) = 5x + 9$
9. Simplify  $\frac{\frac{2}{7}}{\frac{3}{14}}$  [50]
10. Factor out a GCF  $3x^2 - 12x + 9bx$  [58]
11. Simplify  $(6a^7b^4)^2 \cdot b^4$  [206]
12. Find the following:  $2y = 8x - 6$  [135]  
Slope:  
Y-Intercept: ( , )
13. Solve  $(3x + 5)(x - 2) = 0$  [85]
14. Solve  $|x - 1| = 10$  [84]
15. Solve  $x^2 - 2x - 6 = 4$  [88]
16. Simplify  $\frac{(x-9)(x+2)}{x^2-4}$  [209]
17. Simplify  $\frac{3}{7} + \frac{5}{2}$  [39]
18. Factor  $x^2 - 7x - 8$  [53]
19. Simplify  $\frac{18x^3}{20x^7}$  [74]
20. Simplify(PEMDAS)  $2(5 - 2(x + 3))$  [212]