

2a) $m + 3m = 144$; $m = 36$

2b) $3m + 9m = 432$; $m = 36$

2c) $\frac{3}{5}(40) + 2 = 26$; $24 + 2 = 26$

4a) $6n - n < 24$

4b) $n < 4.8$

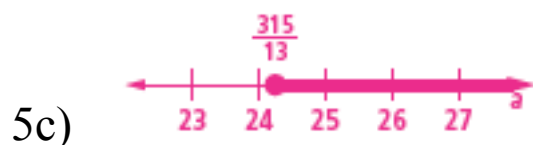


$\frac{3(4.8)}{2} - \frac{4.8}{4} =$
 $\frac{36}{5} - \frac{6}{5} = 6$; Pick
 $n = 0. \frac{3(0)}{2} - \frac{0}{4} =$

4d) $0 < 6$

5a) $10a + 3a \geq 315$

5b) $a \geq \frac{315}{13}$



in. $\frac{2}{3} \left(\frac{315}{13} \right) + \frac{\left(\frac{315}{13} \right)}{5}$
 $= \frac{210}{13} + \frac{63}{13} = 21$;
 Pick $a = 30. \frac{2}{3}(30)$
 $+ \frac{30}{5} = 20 + 6 =$

5d) $26 \geq 21$

7) $y = \frac{64}{9} = \frac{64}{9}; \frac{3}{4} \left(\frac{64}{9} \right) - \frac{1}{3}$
 $= \frac{16}{3} - \frac{1}{3} = 5$

8) $n = 375$ $n = 375; 0.05(375)$
 $+ 3.75 = 18.75 +$
 $3.75 = 22.5$

9) $c = 49$ $c = 49; 138,000$
 $- 2,000(49) =$
 $40,000$

11) $n \leq 18$ $n \leq 18; 1 - \frac{18}{10} =$
 $-\frac{4}{5}$; Pick $n = 0.1$

$-\frac{0}{10} = 1 \geq -\frac{4}{5}$

12) $t = 36$ $t = 36; 5 - \frac{36}{3} =$
 $5 - 12 = -7$

15) Yes, because it simplifies the equation

17) $x = \frac{269}{3}$

20) $n \leq -16$

22) $122 < F < 158$

23) $w = 9$

25) $\frac{31}{7t}$

26) $\frac{15x - 19y - 6z}{15}$