

Answers – Topic 1 practice

1-2 Practice

1. $m = 9$
2. $d = -10$
3. $p = 28$
4. $t = \frac{5}{2}$
5. $r = 26$
6. $n = -4$
7. $x = -34$
8. $q = \frac{5}{2}$
9. $x + (x+1) + (x+2) = 60$; 19, 20, 21
10. $4(x + 2.50) = 64$; \$13.50
11. $0.1x + 0.15(30 - x) = 0.12(30)$; 18 Liters of 10% and 12 liters of 15% solution

1-3 Practice

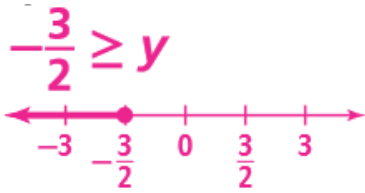
1. One, $y = 1$
2. One, $a = -2$
3. One, $x = -1$
4. One, $n = 1$
5. Infinitely many solutions
6. No solution
7. One, $p = 5$
8. One, $r = -\frac{6}{5}$
9. 5 movies
10. 5 pounds

1-4 Practice

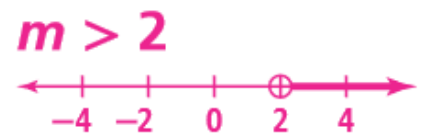
1. $m = 7 - 3n$
2. $m = \frac{1 + 2n}{3}$
3. $m = -3n - \frac{5}{2}$
4. $m = \frac{6 - 3n}{5}$
5. $x = \frac{d}{f} - 1$
6. $x = -\frac{3}{4}n$
7. $x = pm - n$

1-5 Practice

1.



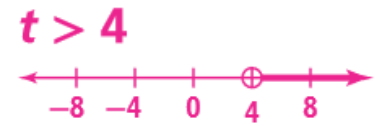
2.



3.



4.



5. $k \geq -6$

6. $y \leq 1$

7. $z > \frac{22}{3}$

8. $x > 2$

9. $c > \frac{3}{2}$

1-6 Practice

1. Match the inequality with its graph.

Compound Inequality

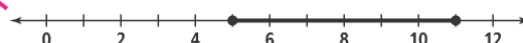
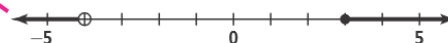
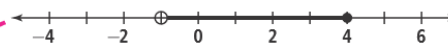
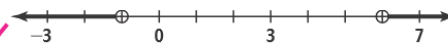
$x < -4$ or $x \geq 3$

$x \leq 11$ and $x \geq 5$

$x \leq 4$ and $x > -1$

$x < -1$ or $x > 6$

Graph



2. $x < -8$ or $x \geq 3$

3. $6 < k < 10$

4. $-5 > y > -13$

5. $m > 1$



6. $-23 \leq k < 1$



7. $x < -4$ or $x \geq 2$

8. $-2 \leq x \leq 1$