

## 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

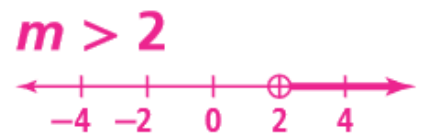
1.  $m = 7 - 3n$
2.  $m = \frac{1 + 2n}{3}$
3.  $m = -3n - \frac{5}{2}$
4.  $m = \frac{6 - 3n}{5}$
5.  $x = \frac{d}{f} - 1$
6.  $x = -\frac{3}{4}n$
7.  $x = pm - n$

1-5 Practice

1.



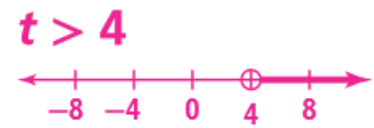
2.



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**

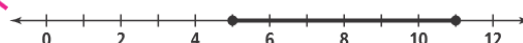
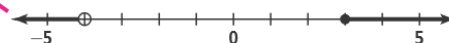
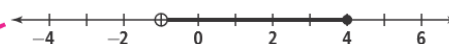
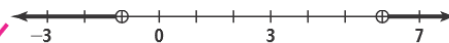
$x < -4$  or  $x \geq 3$

$x \leq 11$  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.  $-2 \leq x \leq 1$