

# Answer Key

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## Lesson 5.4

### Practice Level B

1. 8
2. 16
3. 5
4. 15
5. 12
6. 6
7. **a.**  $M(2, 4); P(2, 1)$  **b.**  $N(0, 1); KP = 4$  and  $KN = 6$  therefore  $KP = \frac{2}{3}KN$ . **8.**  $(-3, -1)$
9.  $(5, -2)$
10. yes; yes; yes
11. no; no; no
12. no; yes; no
13. 12;  $78^\circ$
14. 6.5; 15
15.  $\frac{1}{3}$
16.  $\frac{1}{2}$
17.  $\frac{2}{3}$
18. 7
19. 5
20. 3
21. sometimes
22. sometimes
23. always
24. sometimes
25. 36 in.; By Theorem 5.8, the distance from the vertex to the centroid is  $\frac{2}{3}$  times the length of the median  $(\overline{AB})$ .
26. 8 mm; yes