3 LESSON PRACTICE

28

Answer Key

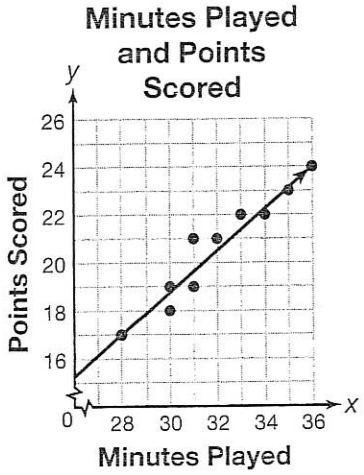
1. C
2. B
3. C
4. A
5. D
6. Part A

x	y	$f(x)$	$y - f(x)$	$g(x)$	$y - g(x)$
1	8	7	1	5.5	2.5
2	6	6	0	5	1
2	5	6	−1	5	0
3	6	5	1	4.5	1.5
3	4	5	−1	4.5	−0.5
4	5	4	1	4	1
4	3	4	−1	4	−1
5	3	3	0	3.5	−0.5
6	3	2	1	3	0
6	2	2	0	3	−1

Part B $f(x) = -x + 8$

7. Part A

Sample graph:



Part B Sample answer: $f(x) = \frac{7}{8}x - \frac{15}{2}$

Part C Sample answer: The slope is $\frac{7}{8}$, which means that the player should score 7 more points for every 8 additional minutes played. The y-intercept is $-\frac{15}{2}$, which means the player would score $-\frac{15}{2}$ points if the player plays 0 minutes. This is not possible, so the y-intercept is not meaningful in this situation.

Part D Sample answer: 28 points

8. Part A $f(x) = \frac{3}{2}x - \frac{3}{2}$; Sample answer: (1, 0), (3, 3), (4, 4), (6, 8), (7, 9); since there are two points above, two points below, and one point on the line, choose three points on the line, one point below, and one point above.

Part B $g(x) = \frac{1}{2}x + 4$; Sample answer: (0, 4), (2, 5), (4, 6), (8, 8), (10, 9); since there are two points above, two points below, and one point on the line, choose five points on the line.