### Lesson 3 Practice Problems

1. Here is a table and a scatter plot that compares points per game to free throw attempts for a basketball team during a tournament.

| * player
 | * free throwattempts
 | * points
 |
| --- | --- | --- |
| * player A
 | * 5.5
 | * 28.3
 |
| * player B
 | * 2.1
 | * 18.6
 |
| * player C
 | * 4.1
 | * 13.7
 |
| * player D
 | * 1.6
 | * 10.6
 |
| * player E
 | * 3.1
 | * 10.4
 |
| * player F
 | * 1
 | * 5
 |
| * player G
 | * 1.2
 | * 5
 |
| * player H
 | * 0.7
 | * 4.7
 |
| * player I
 | * 1.5
 | * 3.7
 |
| * player J
 | * 1.5
 | * 3.5
 |
| * player K
 | * 1.2
 | * 3.1
 |
| * player L
 | * 0
 | * 1
 |
| * player M
 | * 0
 | * 0.8
 |
| * player N
 | * 0
 | * 0.6
 |

* 
	1. Circle the point that represents the data for Player E.
	2. What does the point $\left(2.1,18.6\right)$ represent?
	3. In that same tournament, Player O on another team scored 14.3 points per game with 4.8 free throw attempts per game. Plot a point on the graph that shows this information.
1. Select **all** the representations that are appropriate for comparing exam score to number of hours of sleep the night before the exam.
	1. Histogram
	2. Scatter plot
	3. Dot plot
	4. Table
	5. Box plot
* (From Unit 6, Lesson 2.)
1. A cylinder has a volume of $36π$ cm3 and height $h$. Complete this table for the volume of other cylinders with the same radius but different heights.

| * height (cm)
 | * volume (cm3)
 |
| --- | --- |
| * $h$
 | * $36π$
 |
| * $2h$
 |  |
| * $5h$
 |  |
| * $\frac{h}{2}$
 |  |
| * $\frac{h}{5}$
 |  |

* (From Unit 5, Lesson 17.)



© CC BY Open Up Resources. Adaptations CC BY IM.