Probability Worksheet

A seventh-grade student surveyed 25 students at her school. She asked them how many hours a week they spend playing a sport or game outdoors. The results are listed in the table below.

Number of Hours	Tally	Frequency
0	| | |	3
1	| | | |	4
2	𝍸	5
3	𝍸 | |	7
4	| | |	3
5		0
6	| |	2
7		0
8	|	1

a) Draw a dot plot of the results.

Suppose a student will be randomly selected.

b) What is your estimate for the probability of that student answering 3 hours?

c) What is your estimate for the probability of that student answering 8 hours?

d) What is your estimate for the probability of that student answering 6 or more hours?

e) What is your estimate for the probability of that student answering 3 or fewer hours?

f) If another 25 students were surveyed, do you think they would give the exact same results? Explain your answer.

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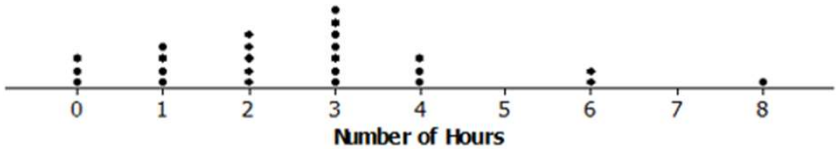
a) Draw a dot plot of the results.



Suppose a student will be randomly selected.

b) What is your estimate for the probability of that student answering 3 hours?

$$\frac{7}{25} = 0.28 = 28\%$$

c) What is your estimate for the probability of that student answering 8 hours?

$$\frac{1}{25} = 0.04 = 4\%$$

d) What is your estimate for the probability of that student answering 6 or more hours?

$$\frac{3}{25} = 0.12 = 12\%$$

e) What is your estimate for the probability of that student answering 3 or fewer hours?

$$\frac{19}{25} = 0.76 = 76\%$$

f) If another 25 students were surveyed, do you think they would give the exact same results? Explain your answer.

No. Each group of 25 students could answer the question differently.