

M408
Probability
Worksheet 14

Name _____

Height of Players on the Basketball Team	72	73	74	75	76	77
Probability	.20	.35	.15	.15	.05	.10

1.) A random basketball player is chosen. What is the expected height of the player?

A survey was conducted on the number of classes taken during second semester at Fremd. Every student in the survey was taking 3, 4, 5, or 6 classes.

# of classes taken	3	4	5	6
# of students	5	11	28	6

2.) How many total students were in the survey?

3.) What is the expected value of number of classes taken?

When calculating GPA, each letter grade is assigned a number value:

A = 4, B = 3, C = 2, D = 1, and F = 0.

Suppose the probabilities that you earn certain grades in your classes match the table below.

Grade	A	B	C	D	F
Probability	0.37	0.44	0.11	.05	?

4.) What is the probability that you earn an F in a class?

5.) After you complete your studies, what is your expected GPA?

A loaded die does not land on each face with equal probabilities. Suppose a 6-sided die is designed to land on '1' half of the time, and the other five values each have an equal chance of appearing.

6.) What is the probability of rolling a '2'?

7.) What is the expected value when rolling this die repeatedly?

8.) 100 raffle tickets at the school dance sold for \$3 each. There is one winning drawing for \$50 prize money, two winning drawings for \$25 each, and five drawings for \$15. What is the expected net monetary value of each lottery ticket?