

**Extra Practice**  
**Chapter 4 Practice Test****BLM 4PT****Selected Response**

For each question, circle the best answer.

1. A classroom has 13 boys in a class of 25 students. What is the probability the teacher will pick a girl?

A  $\frac{13}{25}$     B  $\frac{12}{25}$     C  $\frac{25}{13}$     D  $\frac{12}{13}$

2. The numbers 1 through 12 are each written on a piece of paper and put into a bag. Two numbers are chosen and the first is not returned before the second is chosen. Indicate the probability of drawing 8 then 2.

A  $\frac{1}{12} \times \frac{1}{12}$     B  $\frac{1}{12} \times \frac{11}{12}$

C  $\frac{1}{11} \times \frac{1}{10}$     D  $\frac{1}{12} \times \frac{1}{11}$

3. Janice has an 80% probability of getting to the bus stop on time and if she does, she has a 10% probability of being late to class once she gets to school. What is her probability of getting the bus and to class on time?  
A 72%    B 18%    C 9%    D 8%

4. Kathy decides to use her lucky pen to write her English essay. What kind of probability is she using?

A Experimental

B Subjective judgment

C Theoretical

**Short Response**

5. Elizabeth and Catrina are strangers who are each shopping for a T-shirt and a pair of jeans in the same store. Cool Clothes Store has 4 different colours of T-shirts (red, green, pink, blue) and 3 styles of jeans (flared, tapered, and boot-cut).

a) What is the probability they both buy a pink T-shirt? Indicate with a tree diagram.

b) What is the probability they both buy the tapered jeans? Indicate with a table of possibilities.

c) What is the probability they both choose a red T-shirt and boot-cut jeans?

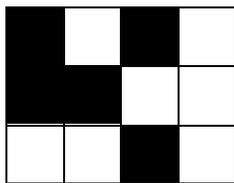
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6. There is a spinner divided into 5 equal sections (2 white, 2 red, and 1 yellow) and a number cube. The number cube is tossed while the spinner is spun. Show all possible outcomes with a tree diagram.

8. There are two spinners: the first with 4 equal sections (red, blue, white, yellow) and the second with 5 sections (2 red, 1 blue, 2 white).

a) Indicate all possible outcomes in a table.

7. Francis and Ajit are playing a game. Francis randomly tosses a coin and if it lands on white, he gets 3 points. Ajit randomly tosses a coin and if it lands on black, he gets 4 points. Is this game fair? Explain why or why not using calculations. If it isn't fair, how can you change the point value to make it fair for both players?



b) Give the probability in a percentage of spinning two blue sections.

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c) Give the probability in a percentage of not spinning two blue.

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d) Explain two ways to determine the answer in part c).

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