

Name: _____

MDM4U Unit 4 Quiz #1

1. How many outcomes are possible if you roll a dice three times and then flip a coin?

2. A bag contains 2 white and two red beads.

One bead is drawn at random.

- If the bead is white it is put back in the bag along with 1 extra white bead.
- If the bead is red it is put back in the bag along with 2 extra red beads.

Another bead is taken from the bag.

Find the probability that this second bead is red.

(Use a tree to solve this problem!)

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3. In a survey of 300 students, it was found that
49% liked watching football,
53% liked watching hockey and
62% liked watching basketball.

It was also,
27% liked watching both football and hockey,
29% liked watching both basketball and hockey and
28% liked watching both football and basketball.

15% of students enjoy watching all three sports.

- A. Draw a Venn diagram (filled) to represent this scenario. [2]
 - B. How many students didn't like any of the three games? [1]
 - C. Find the number of students who like watching only one game. [1]
 - D. Find the number of students who like watching at least two games. [1]
4. There are three grade 9, five grade 10, six grade 11, and nine grade 12 students on a student council. A committee is being formed with one student from each grade, plus an additional student from either grade 11 or 12. In how many ways could this committee be formed? [3]