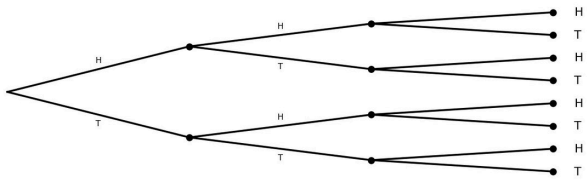
ALBERTA MATH 30-1 · 5 QUESTIONS

Permutations, Combinations & Binomial Theorem — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A coin is tossed 3 times. The tree diagram below shows all the possible outcomes. The number of outcomes with exactly 2 heads is**



Question 1

A coin is tossed 3 times. The tree diagram below shows all the possible outcomes. The number of outcomes with exactly 2 heads is

A) 2

B) 3

C) 4

D) 8

- **A** 2
- **B** 3
- **C** 4
- **D** 8

Understand It with Pulse

Flag a mistake

2 **Seven different trophies are arranged in a row on a shelf. The number of possible arrangements of the trophies is**

- A 720
- B 2520
- C 5040
- D 40320

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3 **A coach selects a training squad of 3 swimmers from 10 swimmers. The number of different squads that can be selected is**

- A 30
- B 720
- C 240
- D 120

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4 **A colourful spinner wheel is divided into eight equal sections, with no numbers. The number of 4-digit numbers that can be formed using the digits 1, 2, 3, 4, 5, and 6, with no digit repeated, is _____**



ANSWER _____

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5 **A courier travels on a grid from a warehouse to a store, moving only east or north. The trip requires 4 moves east and 3 moves north. The number of different routes is**

- A 35
- B 12
- C 24
- D 210

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ANSWER KEY

1. B
2. C
3. D
4. 360
5. A

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