



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ List the sample space of an experiment.
- ✓ Count the number of outcomes.
- ✓ Handle experiments with several coins.
- ✓ Handle experiments with two dice.



Section A · Concept Check

• BEGINNER

$4 \times 1 = 4$

- 1 The sample space of a 4-sided die (1-4) is:
 - ☐ A. {1,2,3,4}
 - ☐ B. {1,2,3,4,5,6}
 - ☐ C. {H,T}
 - ☐ D. {1,4}
- 2 How many outcomes when flipping 3 coins?
 - ☐ A. 8
 - ☐ B. 6
 - ☐ C. 3
 - ☐ D. 9
- 3 The number of outcomes from rolling two dice is:
 - ☐ A. 36
 - ☐ B. 12
 - ☐ C. 6
 - ☐ D. 11
- 4 How many outcomes when flipping n coins?
 - ☐ A. 2 n
 - ☐ B. 2n
 - ☐ C. n 2
 - ☐ D. n



Section B · Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

- 5 The set of all possible outcomes is the _____.
- 6 Flipping 3 coins has _____ outcomes.
- 7 Write the sample space for rolling a 4-sided die (numbered 1-4).

- 8 How many outcomes are in the sample space of flipping 3 coins?

- 9 Write the sample space for flipping 3 coins.



Section C · Challenge

• CHALLENGE

5

- 10 How many outcomes result from rolling two dice?

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature

Parent's Signature

ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 sample space 6 8 7 = S = {1,2,3,4} 8 = 8 9 =
 {HHH,HHT,HTH,HTT,THH,THT,TTH,TTT} | 10 = 36