



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Compute the probability of an event.
- ✓ Use the complement rule.
- ✓ Work with face cards in a deck.
- ✓ Find the intersection of two events.



Section A • Concept Check

BEGINNER

$4 \times 1 = 4$

- A die is rolled; E = number greater than 4. $P(E) =$:
☐ A. $1/3$ ☐ B. $1/2$ ☐ C. $2/3$ ☐ D. $1/6$
- For that event, $P(E') =$:
☐ A. $2/3$ ☐ B. $1/3$ ☐ C. $1/2$ ☐ D. $5/6$
- A card is drawn; E = face card (J, Q, K). $P(E) =$:
☐ A. $3/13$ ☐ B. $1/4$ ☐ C. $3/52$ ☐ D. $12/13$
- A die is rolled; A = even, B = number less than 3. $A \cap B =$:
☐ A. $\{2\}$ ☐ B. $\{1,2\}$ ☐ C. $\{2,4,6\}$ ☐ D. $\{\}$



Section B • Problem Solving

INTERMEDIATE

$2 + 3 \times 3 = 11$

- $P(E') = 1 -$ _____
- $P(\text{rolling a number} > 4)$ on a die is _____
- A die is rolled; E = number greater than 4. Find $P(E)$.

- Find $P(E')$ for that event.

- A card is drawn; E = face card (J, Q, K). Find $P(E)$.



Section C • Challenge

CHALLENGE

5

- A die is rolled; A = even, B = number less than 3. Find $A \cap B$.



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 $P(E)$ 6 $1/3$ 7 $= 2/6 = 1/3$ 8 $= 2/3$ 9 $= 12/52 = 3/13$ | 10 $= \{2\}$