

Practice 6-4

Probability

Find each probability for choosing a letter at random from the word **PROBABILITY**.

- 1. $P(B)$ _____
- 2. $P(P)$ _____
- 3. $P(A \text{ or } I)$ _____
- 4. $P(\text{not } P)$ _____

A child is chosen at random from the Erb and Smith families. Find the odds in favor of each of the following being chosen.

- 5. a girl _____
- 6. an Erb _____
- 7. an Erb girl _____
- 8. a Smith girl _____
- 9. not a Smith boy _____
- 10. a Smith _____

	Erb family	Smith family
Girls	2	5
Boys	4	3

A box contains 7 red, 14 yellow, 21 green, 42 blue, and 84 purple marbles. A marble is drawn at random from the box. Find each probability.

- 11. $P(\text{red})$ _____
- 12. $P(\text{yellow})$ _____
- 13. $P(\text{green or blue})$ _____
- 14. $P(\text{purple, yellow, or red})$ _____
- 15. $P(\text{not green})$ _____
- 16. $P(\text{not purple, yellow, or red})$ _____

Find the odds in favor of each selection when a marble is chosen at random from the box described above.

- 17. blue _____
- 18. purple _____
- 19. not red _____
- 20. not green or blue _____
- 21. yellow _____
- 22. not purple or yellow _____

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