

Predict counts from probability — Probability as a fraction



Name: _____

Date: _____

Predict how many times each event happens.

1 $P(\text{red}) = 3/4$. In 300 spins, how many land on red?

3 $P(\text{a win}) = 1/4$. In 120 games, how many are wins?

5 $P(\text{red}) = 1/4$. In 20 spins, how many land on red?

7 $P(\text{blue}) = 3/5$. In 40 draws, how many are blue?

2 $P(\text{red}) = 8/10$. In 120 spins, how many land on red?

4 $P(\text{red}) = 3/4$. In 120 spins, how many land on red?

6 $P(\text{blue}) = 4/5$. In 200 draws, how many are blue?

8 $P(\text{a win}) = 1/2$. In 50 games, how many are wins?



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— Answer key



1. $P(\text{red}) = 3/4$. In 300 spins, how many land on red? → 225

2. $P(\text{red}) = 8/10$. In 120 spins, how many land on red? → 96

3. $P(\text{a win}) = 1/4$. In 120 games, how many are wins? → 30

4. $P(\text{red}) = 3/4$. In 120 spins, how many land on red? → 90

5. $P(\text{red}) = 1/4$. In 20 spins, how many land on red? → 5

6. $P(\text{blue}) = 4/5$. In 200 draws, how many are blue? → 160

7. $P(\text{blue}) = 3/5$. In 40 draws, how many are blue? → 24

8. $P(\text{a win}) = 1/2$. In 50 games, how many are wins? → 25