Making Predictions Muscle Stress Making Predictions Mith Experimental Probability

7.6.C Make predictions and determine solutions using experimental data for simple and compound events. *Also* 7.6.H, 7.6.I

ESSENTIAL QUESTION

How do you make predictions using experimental probability?

TEKS 7.6.C

Using Experimental Probability to Make a Prediction

Scientists study data to make predictions. You can use probabilities to make predictions in your daily life.

EXAMPLE 1 (World

Danae found that the experimental probability of her making a bull's-eye when throwing darts is $\frac{2}{10}$, or 20%. Out of 75 throws, about how many bull's-eyes could she predict she would make?

Method 1: Use a proportion.



 $0.20 \cdot 75 = x$ Find 20% of 75. 15 = x You can write probabilities as ratios, decimals, or percents.

Danae can predict that she will make about 15 bull's-eye throws out of 75.



1. A car rental company sells accident insurance to 24% of its customers. Out of 550 customers, about how many customers are predicted to

purchase insurance? _____





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