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Dividing Decimals

You can use the partial-quotients method to **divide decimals**.

To divide: $38.5 \div 5$, first estimate the quotient:

Divide as you do whole numbers.

Ignore the decimal point for now.

Estimate each partial quotient. Then multiply and subtract.

Use your estimate to place the decimal point in the quotient, 7.7. This is close to the estimate, 8. The answer makes sense.

$$40 \div 5 = 8$$

$$\begin{array}{r} 5 \overline{)385} \\ - 350 \\ \hline 35 \\ - 35 \\ \hline 0 \end{array} \quad \begin{array}{r} 70 \\ + 7 \\ \hline 77 \end{array}$$

Practice

Estimate each quotient and divide. Show your work.

5. $42.5 \div 5$ Estimate: _____

6. $28.8 \div 3$ Estimate: _____

Quotient: _____

Quotient: _____

7. $86.8 \div 7$ Estimate: _____

8. $23.36 \div 8$ Estimate: _____

Quotient: _____

Quotient: _____

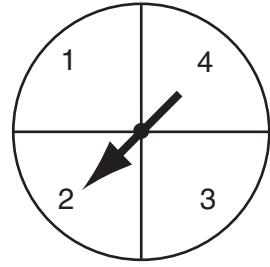
Finding Probabilities

Probability is the likelihood of something happening. It is expressed as a number from 0 to 1.

Probability is determined as $\frac{\text{number of favorable outcomes}}{\text{number of possible outcomes}}$.

For this spinner, the number of total outcomes is 4.

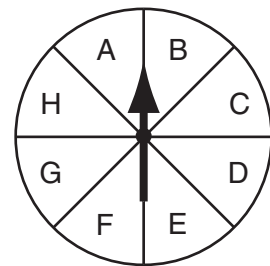
The probability of spinning a 2 is $\frac{1}{4}$, or 25%.



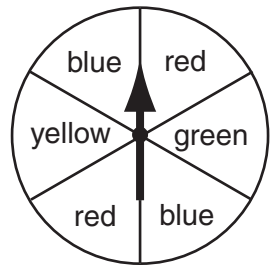
Practice

Determine each probability. Write it as a fraction.

- The probability of spinning a vowel _____
- The probability of spinning a C _____
- The probability of spinning D, F, or G _____
- The probability of spinning a consonant _____



- The probability of spinning a blue _____
- The probability of spinning a yellow _____
- The probability of spinning a green or red _____
- The probability of spinning an orange _____



- The probability of spinning a number greater than or equal to 3 _____
- The probability of spinning a 7 _____
- The probability of spinning a number less than or equal to 4 _____
- The probability of spinning an even number _____

