Is It Reasonable?

Numbers or amounts are not true or false by themselves. They are only true or false when they describe something. Then you can decide if the use of the number is reasonable.

100 pounds is reasonable if it describes the weight of a person. It doesn't make sense if it refers to the weight of a pet cat.

Write *true* or *false* to answer each question. Then explain.

Could **1,333** be—

1. the number of teachers in your school? _____
2. the miles traveled on a trip? _____
3. the number of people in your town? _____
4. the number of meals and snacks you eat in a year? _____

   _____
5. the number of runs scored in a baseball game? _____
6. more than ten dollars in cents? _____
7. the greatest distance in miles across your state? _____

   _____
8. the number of meters in a race you could finish? _____

   _____
9. about the number of days in one year? _____
10. about the number of hours in a month? _____
11. the product of 13 × 3? _____
12. your height in centimeters? _____

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Write a statement about the number 1,333. Make it something that is true about the number.

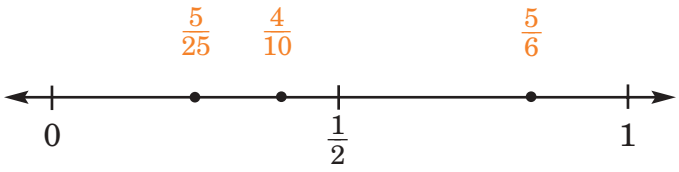
Classifying Fractions

Fractions are often written as numbers between 0 and 1. The larger the fraction, the closer it is to 1. The smaller it is, the closer it is to 0.

$\frac{5}{6}$ is closer to 1 than to $\frac{1}{2}$.

$\frac{4}{10}$ is closer to $\frac{1}{2}$ than to 1 or 0.

$\frac{5}{25}$ is closer to 0 than to $\frac{1}{2}$.



Look at the fractions in each item. Classify each fraction by the number it is closest to: 0, $\frac{1}{2}$, or 1.

1. $\frac{1}{12}$ $\frac{12}{12}$ $\frac{6}{12}$ $\frac{2}{12}$ $\frac{11}{12}$

Closest to 0: _____ Closest to $\frac{1}{2}$: _____ Closest to 1: _____

2. $\frac{12}{20}$ $\frac{4}{20}$ $\frac{1}{20}$ $\frac{3}{20}$ $\frac{18}{20}$

Closest to 0: _____ Closest to $\frac{1}{2}$: _____ Closest to 1: _____

3. $\frac{3}{10}$ $\frac{3}{3}$ $\frac{3}{36}$ $\frac{3}{7}$ $\frac{3}{16}$

Closest to 0: _____ Closest to $\frac{1}{2}$: _____ Closest to 1: _____

4. $\frac{1}{5}$ $\frac{1}{8}$ $\frac{4}{7}$ $\frac{6}{10}$ $\frac{9}{9}$

Closest to 0: _____ Closest to $\frac{1}{2}$: _____ Closest to 1: _____

5. $\frac{7}{8}$ $\frac{2}{5}$ $\frac{4}{10}$ $\frac{1}{9}$ $\frac{5}{12}$

Closest to 0: _____ Closest to $\frac{1}{2}$: _____ Closest to 1: _____

6. $\frac{1}{100}$ $\frac{49}{100}$ $\frac{92}{100}$ $\frac{9}{100}$ $\frac{66}{100}$

Closest to 0: _____ Closest to $\frac{1}{2}$: _____ Closest to 1: _____

7. $\frac{4}{5}$ $\frac{11}{10}$ $\frac{1}{6}$ $\frac{8}{14}$ $\frac{11}{24}$

Closest to 0: _____ Closest to $\frac{1}{2}$: _____ Closest to 1: _____

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In two minutes, write as many fractions as you can that are close to $\frac{1}{2}$. What is similar about these fractions?