

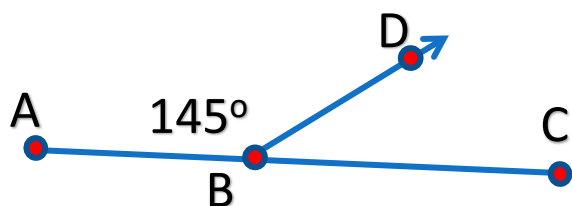
Warmup

1. Solve and Check

$$0.2x = 10$$

2. Add point A to the number line at $\frac{4}{5}$ 

3. $\angle ABD = 145^\circ$
 $\angle CBD = \underline{\hspace{2cm}}^\circ$



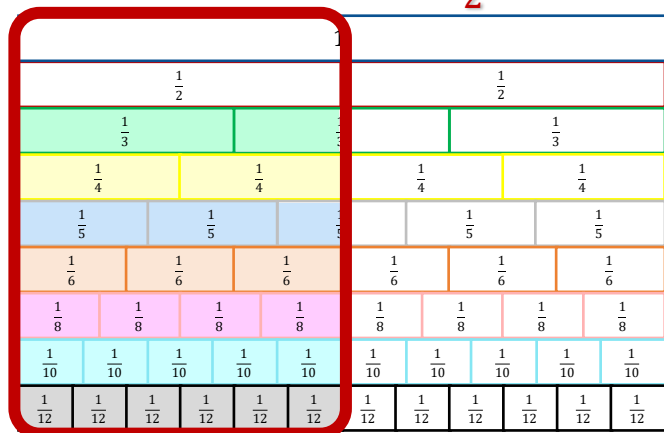
4.

Round to the nearest whole number.

4.82

4.28

I. Rounding Fractions to the nearest whole number

Fractions that equal $\frac{1}{2}$ 

A fraction is **equal** to $\frac{1}{2}$ when the numerator is _____ the denominator.

5. Write one half using fourths, sixths, eights, tenths, and twelfths.

$$\frac{1}{2} = \frac{\quad}{4} = \frac{\quad}{6} = \frac{\quad}{8} = \frac{\quad}{10} = \frac{\quad}{12}$$

$$\frac{5}{6} \bigcirc \frac{1}{2}$$

$$\frac{1}{4} \bigcirc \frac{1}{2}$$

$$\frac{4}{9} \bigcirc \frac{1}{2}$$

$$\frac{1}{3} \bigcirc \frac{1}{2}$$

A fraction is **greater** than $\frac{1}{2}$ when the numerator is _____ one-half the denominator.

A fraction is **less** than $\frac{1}{2}$ when the numerator is _____ one-half the denominator.

6. Compare each fraction to $\frac{1}{2}$

$$\frac{3}{5} \bigcirc \frac{1}{2}$$

$$\frac{7}{10} \bigcirc \frac{1}{2}$$

$$\frac{6}{7} \bigcirc \frac{1}{2}$$



What is the value of point x? _____
 Round the answer to the nearest whole number. _____

Rounding Fractions to the nearest Whole Number:

When the fractional part is **greater than or equal to** $\frac{1}{2}$, round up to the next whole number.
 Example: $2\frac{3}{4}$ rounds to 3

When the fractional part is **less than** $\frac{1}{2}$, remove the fractional part (**round down** to the whole number)

Example: $7\frac{5}{12}$ rounds to 7



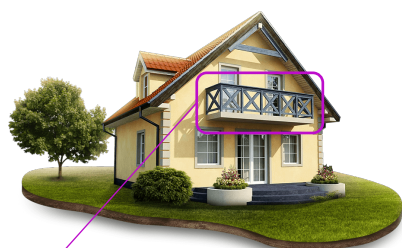
What fraction is point D? (in simplest terms) _____
 Round point D to the nearest whole number. _____

8.



What fraction is point B? (in simplest terms) _____
 Round point B to the nearest whole number. _____

II. Improper Fractions and Mixed Numbers



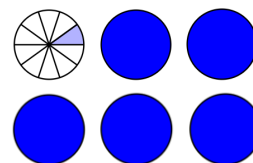
Weight limit for the balcony = 400 lbs.

What fraction of the circle is shaded?



Improper Fraction: _____

Mixed Number: _____



Improper Fraction:

An improper fraction is a fraction that has a numerator larger than the denominator.

Example: $\frac{10}{8} = \frac{5}{4}$

Mixed Number:

A mixed number is a whole number and a fraction with a numerator less than the denominator.

Example: $1\frac{2}{8} = 1\frac{1}{4}$

Determine if each fraction is a (P)proper or (I)improper fraction?

$$\frac{3}{5}$$

$$\frac{12}{17}$$

$$\frac{7}{2}$$

$$\frac{8}{9}$$

$$\frac{16}{4}$$

11. Is $\frac{15}{13}$ a proper or improper fraction?

Express the amount shown as a fraction and mixed number



12.



Convert Improper Fractions to Mixed Numbers:

Divide the denominator into the numerator.

The remainder is the numerator

Keep the denominator

$$\frac{9}{8} =$$

$$\frac{3}{2} =$$

$$\frac{21}{10} =$$

$$\frac{8}{3} =$$

$$\frac{13}{7} =$$

14. Write the improper fraction $\frac{5}{4}$ as a mixed number in simplest form.

15.

Convert Mixed Numbers to improper Fractions:

To calculate the numerator:

1. Multiplying the denominator by the whole number
2. Add the numerator to the product

Keep the denominator

$$1\frac{1}{8} =$$

$$1\frac{1}{2} =$$

$$2\frac{1}{10} =$$

$$2\frac{2}{3} =$$

$$1\frac{6}{7} =$$

16. Write the mixed number $2\frac{1}{5}$ as an improper fraction.

17.

18.  

III. Practice

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