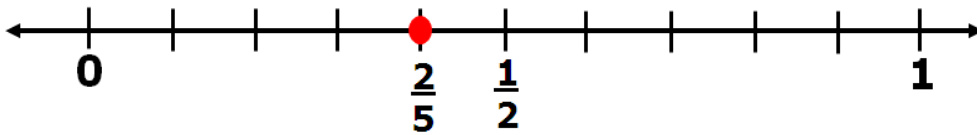


3.7 Estimate with Fractions

p. 180 12-11-17

Nov 25-9:22 AM



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

$$\frac{2}{5} = \frac{4}{10}$$

(2.5)

Nov 25-8:53 AM

Benchmarks for Rounding Fractions		
<p>Round to 0 if the numerator is much smaller than the denominator.</p> <p>Examples: $\frac{1}{9}$ ' $\frac{3}{20}$ ' $\frac{2}{11}$</p>	<p>Round to $\frac{1}{2}$ if the numerator is about half the denominator.</p> <p>Examples: $\frac{2}{5}$ ' $\frac{5}{12}$ ' $\frac{7}{13}$</p>	<p>Round to 1 if the numerator is nearly equal to the denominator.</p> <p>Examples: $\frac{8}{9}$ ' $\frac{23}{25}$ ' $\frac{97}{100}$</p>

Nov 25-8:56 AM

A blue whale can grow to $33\frac{3}{5}$ m long, while the great white shark may be as long as $4\frac{1}{2}$ m. Estimate how much longer the blue whale is than the great white shark.

$$\begin{array}{r}
 33\frac{3}{5} \text{ } \textcircled{2.5} \quad 4\frac{1}{2} \\
 33\frac{1}{2} \\
 - \quad 4\frac{1}{2} \\
 \hline
 29\text{m}
 \end{array}$$

Nov 25-9:31 AM

A Cocker Spaniel may grow to weigh about $11\frac{1}{2}$ kilograms while the Chihuahua will not weigh more than $2\frac{7}{8}$ kilograms. Estimate how much more the Cocker Spaniel weighs than the Chihuahua.

Nov 25-9:33 AM

$$\begin{array}{r} 7 \quad 2 \\ - \quad - \\ \hline 9 \quad 5 \end{array}$$

(4.5) (2.5)

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

Nov 25-9:34 AM

$$4\frac{5}{9} + 3\frac{1}{8}$$

↓

$$4\frac{1}{2} + 3 = 7\frac{1}{2}$$

Nov 25-9:33 AM

$$-2\frac{1}{8} + \frac{7}{12}$$

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

Nov 25-9:33 AM

$$3\frac{2}{9} \cdot 6\frac{5}{6}$$

$$3 \cdot 7 = 21$$

~~$$3\frac{1}{2} \cdot 7 =$$~~

Nov 25-9:46 AM

$$11\frac{7}{8} \div 3\frac{1}{3}$$

$$12 \div 3 = 4$$

$$11\frac{1}{8} \div 3\frac{1}{3}$$

$$12 \div 3 = 4$$

Nov 25-9:34 AM

$$13\frac{4}{5} \div 2\frac{1}{4}$$

$$14 \div 2 = 7$$

Nov 25-9:46 AM

1. The new show arena being built in Franklin County is $150\frac{3}{4}$ feet long and $110\frac{1}{2}$ feet wide. Estimate the difference between the length and width.

Estimate each sum or difference.

2. $\frac{5}{9} + \frac{4}{5}$ $\frac{1}{2} + 1 = 1\frac{1}{2}$ 3. $\frac{7}{8} - \frac{3}{7}$ $1 - \frac{1}{2} = \frac{1}{2}$

4. $9\frac{3}{4} - 6\frac{1}{5}$ $10 - 6 = 4$

Estimate each product or quotient.

5. $5\frac{7}{8} \cdot 2\frac{1}{6}$ $6 \cdot 2 = 12$

6. $17\frac{5}{6} \div 3\frac{1}{3}$ $18 \div 3 = 6$

Jan 13-8:44 AM