

3.6

A student showed the following work for the problem $280 \div 35$:

Use this same method to do the problem $270 \div 45$.

$$\begin{array}{r} 280 \\ -70 \\ \hline 210 \\ -70 \\ \hline 140 \\ -70 \\ \hline 70 \\ -70 \\ \hline 0 \end{array}$$

So four 70s is eight 35s.

3.7

In each pair, choose the larger, using number sense rather than calculating.

$$543 - 182, \text{ or } 543 - 185$$

$$543 - 182, \text{ or } 547 - 182$$

4.1

Use drawings of base pieces to illustrate these problems. Specify which piece is used to represent one whole.

$$2.67 + 19.8$$

$$2.67 + 1.98$$

5.1

Using the bar, draw a strip diagram to represent 21 is 35% of some number, N . Do not find or write the value of N . Put enough detail in your diagram so that a young student could easily determine the value of N .

**5.2**

Show your thinking to estimate:

a) 23% of 87,922

b) the sale price of a chair originally priced \$151.33 with a “20% off” tag

5.3

Describe a possible referent for each of the following:

10 miles

100 miles

1000 miles

5.4

Rewrite this problem in scientific notation; multiply using scientific notation format; and write

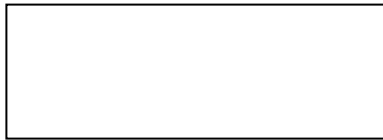
your answer in scientific notation.

$$230,000 \times 0.000000081$$

Answer: _____

6.1

Shown below is $1\frac{3}{4}$ yards of carpet. Draw pictures to represent 1 yard of carpet and $2\frac{1}{3}$ yards of carpet, respectively. If the piece of carpet shown sells for \$31.50, what is the cost of the carpet per yard?



1 yard:

$2\frac{1}{3}$ yards:

Cost of 1 yard of carpet: _____

6.2

Circle the larger number in each pair. Give a brief explanation of your thinking.

a) $\frac{123}{240}$ and $\frac{35}{70}$

b) $\frac{91}{120}$ and $\frac{59}{80}$

c) $\frac{25}{101}$ and $\frac{40}{159}$

6.3

Change each decimal to its simplified fraction equivalent. Show all steps of your work.

a) 0.042



b) $0.\overline{36}$

6.4

With the denominator given, write one fraction that is close to, but larger than, the given fraction and one fraction that is close to, but smaller than, the given fraction.

larger

smaller

a) $\frac{2}{5}$, denominator 180

b) $\frac{1}{6}$, denominator 72