

Warm Up Grade 7

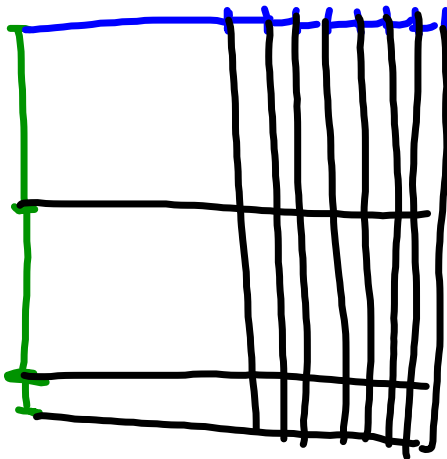


Multiply

$$\begin{array}{r}
 1) \quad \begin{array}{c} \color{red}{\uparrow} \color{blue}{\uparrow} \\ 3.25 \\ \times 1.8 \\ \hline \end{array} \\
 \color{purple}{2600} \\
 \color{orange}{3250} \\
 \hline
 \color{black}{5850}
 \end{array}$$

$$\begin{array}{r}
 2) \quad \begin{array}{c} \color{green}{\uparrow} \color{green}{\uparrow} \\ 16.2 \\ \times 3.7 \\ \hline \end{array} \\
 1134 \\
 + 4860 \\
 \hline
 \color{green}{5994}
 \end{array}$$

model 2.1 x 1.7



$$\begin{array}{r}
 \color{red}{2 \text{ ones}} \quad 2.00 \\
 \color{red}{15 \text{ tenths}} \quad 1.50 \\
 \color{red}{7 \text{ hundredths}} \quad \underline{0.07} \\
 \hline
 \color{blue}{3.57}
 \end{array}$$

Finish the following



4. Divide. Multiply to check your answers.

a) $27.025 \div 5$

b) $3.42 \div 6$

c) $7.735 \div 7$

d) $16.072 \div 8$

e) $30.9 \div 5$

f) $3.438 \div 6$

7. Eric cycled 2.25 km in 5 min.
Josie cycled 2.72 km in 8 min.
Who travelled farther in 1 min?
Show your work.

8. Sharma paid \$58.50 to board her cat at a kennel in Yellowknife for 5 days.
Her friend Miles paid \$12.50 each day to board his cat at a different kennel for 5 days.
Who paid the lesser amount?
Explain how you know.

Part 2) If needed

1) $88.2 \div 7$ 2) $12.65 \div 4$ 3) $4.864 \div 8$

4) $14.596 \div 9$ 5) $134.82 \div 6$ 6) $7.043 \div 5$

7) $9.654 \div 3$ 8) $18.62 \div 4$ 9) $67.548 \div 6$

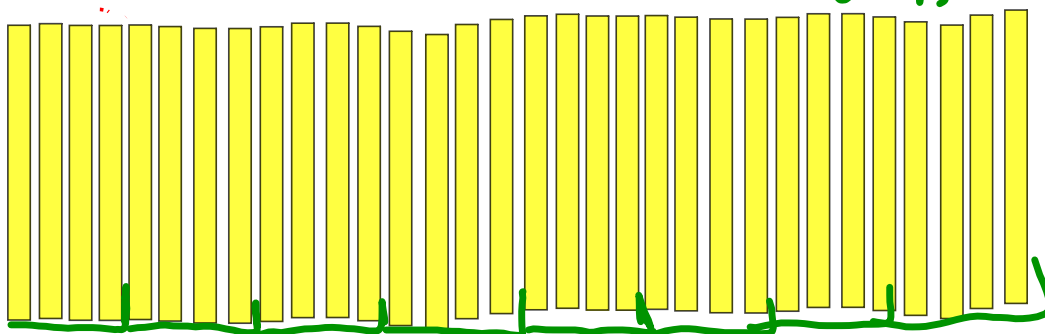
Dividing Decimals

Since multiplication and division is related, we can also use Base Ten Blocks to divide.

$$3.2 \div 0.4$$

we say 32 tenths \div 4 tenths = 8 groups, (How many groups?)

break into groups
containing 4 tenths.
(How many groups?)



$$3.2 \div 0.4$$

$$= 32 \div 4$$

$$= 8$$

Dividing Decimals

$1.8 \times 0.4 = 0.72$ THEN $0.72 \div 1.8 = 0.4$
 $0.72 \div 0.4 = 1.8$

dividend
divisor
quotient

$$\begin{array}{r} \text{Quotient} \\ \text{Divisor} \overline{) \text{Dividend}} \end{array}$$

$0.72 \div 0.4$ \Rightarrow long division but first make divisor a whole number

long division

a) $0.4 \overline{) 0.72}$ \longrightarrow $4 \overline{) 7.2}$

$0.72 \div 0.4 = 1.8$

$$\begin{array}{r} 1.8 \\ 4 \overline{) 7.2} \\ \underline{-4} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

b) $0.8 \overline{) 0.72}$ \longrightarrow $8 \overline{) 7.2}$

$0.72 \div 0.8 = 0.9$

$$\begin{array}{r} 0.9 \\ 8 \overline{) 7.2} \\ \underline{-0} \\ 72 \\ \underline{-72} \\ 0 \end{array}$$

→ close to 1

$$52.1 \div 0.9$$

estimate

$$\approx 52 \div 1$$

$$52$$

$$0.9 \overline{) 52.1} \longrightarrow$$

$$52.1 \div 0.9 = 57.8\overline{8}$$

$$9 \overline{) 521.00}$$

$$\begin{array}{r} 57.88 \\ -45 \\ \hline 71 \\ -63 \\ \hline 80 \\ -72 \\ \hline 80 \\ -72 \\ \hline 8 \end{array}$$

,wer

$$\begin{array}{r} 80 \\ -72 \\ \hline 8 \end{array}$$

$$0.8 \overline{) 6.34} \longrightarrow \begin{array}{r} 7.925 \\ 8 \overline{) 63.400} \\ \underline{-56} \\ 74 \\ \underline{-72} \\ 20 \\ \underline{-16} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$$0.7 \overline{) 436.1} \rightarrow$$

$$\begin{array}{r} 623. \\ 7 \overline{) 4361.} \\ \underline{-42} \\ 16 \\ \underline{-14} \\ 21 \\ \underline{-21} \\ 0 \end{array}$$

$$0.7 \overline{) 10.78} \rightarrow \begin{array}{r} 15.4 \\ 7 \overline{) 107.8} \\ \underline{-7} \\ 37 \\ \underline{-35} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

$$67.95 \div 1.2 =$$

→ 12 $\overline{) 679.500}$

5 6 . 6 2 5

-60 ↓

79 ↓

-72 ↓

75 ↓

-72 ↓

30 ↓

-24 ↓

60 ↓

-60

0

Class/ Homework

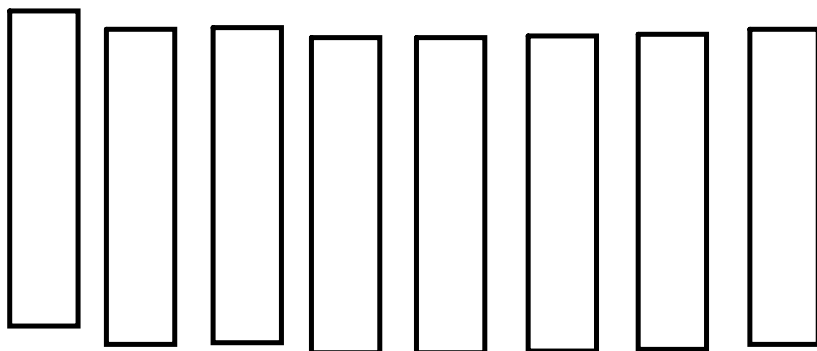
pg. 106 # 4^{abc}, #5^{abc}

4a) $5 \overline{)59.5}$ b) $0.2 \overline{)195.3}$

pg 106

$$1 a) 0.8 \div 0.1$$

8 tenths \div one tenth



How many tenths?

8

