



Warm up Grade 6

Date: _____



Divide

1) $42.36 \div 4$

$$\begin{array}{r} 10.59 \\ 4 \overline{) 42.36} \\ \underline{-4} \\ 0 \\ \underline{-0} \\ 2 \\ \underline{-2} \\ 0 \\ \underline{-0} \\ 3 \\ \underline{-3} \\ 0 \\ \underline{-0} \\ 0 \end{array}$$

2) $4.5648 \div 6$

$$\begin{array}{r} 0.7608 \\ 6 \overline{) 4.5648} \\ \underline{-4} \\ 0 \\ \underline{-0} \\ 0 \\ \underline{-0} \\ 0 \\ \underline{-0} \\ 0 \\ \underline{-0} \\ 0 \\ \underline{-0} \\ 0 \\ \underline{-0} \\ 0 \\ \underline{-0} \\ 0 \\ \underline{-0} \\ 0 \end{array}$$

Practice

1. Use Base Ten Blocks to divide.

- a) $6.25 \div 5$ b) $4.24 \div 4$ c) $1.68 \div 3$ d) $3.9 \div 6$

a) $5 \overline{) 6.25}$
 $\begin{array}{r} 1.25 \\ -5 \\ \hline 12 \\ -10 \\ \hline 25 \\ -25 \\ \hline 0 \end{array}$

b) $4 \overline{) 4.24}$
 $\begin{array}{r} 1.06 \\ -4 \\ \hline 02 \\ -08 \\ \hline 24 \\ -24 \\ \hline 0 \end{array}$

c) $3 \overline{) 1.68}$
 $\begin{array}{r} 0.56 \\ -15 \\ \hline 18 \\ -18 \\ \hline 0 \end{array}$

d) $6 \overline{) 3.9}$
 $\begin{array}{r} 0.65 \\ 36 \\ \hline 30 \\ -30 \\ \hline 0 \end{array}$

2. The decimal point is missing in each quotient.

Use estimation to place each decimal point.

- ★ $8.2 \div 2 = 4.1$ $8/2 = 4$ ★ $3.81 \div 3 = 1.27$ $3/3 = 1$
 c) $1.992 \div 8 = 0.249$ $2/8 = 0.25$ ★ $9.45 \div 5 = 1.89$ $10/5 = 2$
 e) $11.916 \div 9 = 1.324$ ★ $62.8 \div 8 = 7.85$ $64/8 = 8$

3. Estimate each quotient. Which strategies did you use?

- a) $26.34 \div 8$ b) $15.27 \div 3$ c) $2.304 \div 4$
 d) $5.8 \div 8$ e) $8.088 \div 6$ f) $2.316 \div 2$

a) $8 \overline{) 26.3400}$
 $\begin{array}{r} 3.2925 \\ -24 \\ \hline 23 \\ -16 \\ \hline 74 \\ -72 \\ \hline 20 \\ -16 \\ \hline 40 \\ -40 \\ \hline 0 \end{array}$

b) $3 \overline{) 15.27}$
 $\begin{array}{r} 5.09 \\ -15 \\ \hline 02 \\ -0 \\ \hline 27 \\ -27 \\ \hline 0 \end{array}$

c) $4 \overline{) 23.04}$
 $\begin{array}{r} 5.76 \\ 20 \\ \hline 30 \\ -28 \\ \hline 24 \\ -24 \\ \hline 0 \end{array}$

d) $8 \overline{) 5.800}$
 $\begin{array}{r} 0.725 \\ 56 \\ \hline 20 \\ 16 \\ \hline 40 \\ 40 \\ \hline 0 \end{array}$

e) $6 \overline{) 8.088}$
 $\begin{array}{r} 1.246 \\ 6 \\ \hline 20 \\ 18 \\ \hline 28 \\ 24 \\ \hline 48 \\ 48 \\ \hline 0 \end{array}$

f) $2 \overline{) 2.316}$
 $\begin{array}{r} 1.158 \\ 2 \\ \hline 03 \\ 2 \\ \hline 11 \\ 10 \\ \hline 16 \\ 16 \\ \hline 0 \end{array}$

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) $3.438 \div 6$

4d)

$$\begin{array}{r}
 2.009 \\
 8 \overline{) 16.072} \\
 \underline{-16} \\
 0 \\
 \underline{-0} \\
 0 \\
 \underline{-0} \\
 72 \\
 \underline{-72} \\
 0
 \end{array}$$

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) $67.548 \div 6$

Step 2:
Actual
Answer

$$\begin{array}{r}
 5 \overline{) 27025} \\
 \underline{20000} \\
 - 7025 \\
 \underline{5000} \\
 - 2025 \\
 \underline{2000} \\
 - 25 \\
 \underline{25} \\
 0
 \end{array}$$

5×4000
 5×1000
 5×400
 5×5

5405



5. Estimate to choose the correct quotient for each division question.

	Question	Possible Quotients		
a)	$8.124 \div 6$	1.354	13.54	135.4
b)	$37.92 \div 3$	0.1264	1.264	12.64
c)	$7.624 \div 8$	0.953	9.53	95.3

6. Aqpiq Peter is a young Inuit speed skater from Nunavut. He is one of 3 First Nations athletes being showcased for the 2010 Vancouver Olympics. At practice, Aqpiq skated 2.75 km in 5 min. About how far did Aqpiq skate in 1 min?





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.



9. The decimal point in some of these quotients is in the wrong place. Identify the mistakes, then write each quotient with the decimal point in the correct place.
- | | |
|-------------------------|----------------------------|
| a) $44.8 \div 8 = 0.56$ | b) $14.805 \div 5 = 2.961$ |
| c) $3.15 \div 6 = 5.25$ | d) $8.127 \div 1 = 0.8127$ |



10. A student divided 1.374 by 4 and got 3.435.
- Without dividing, how do you know the answer is incorrect?
 - What do you think the student did wrong?
 - What is the correct answer? How can you check?

11. Write a story problem that can be solved by dividing 14.28 by 3.
 Trade problems with a classmate and solve your classmate's problem.

13. In good weather, Hannah rides her bike to school and back each day.
 One week, Hannah rode her bike on 4 days.
 That week, Hannah rode 10.832 km in total.
 The following week, she rode her bike all 5 days.
 How far did Hannah ride the second week?

