



Warm up Grade 6

Date: _____



1) Without multiplying, choose the correct product for each multiplication question. Explain your choice each time. Multiply to check

Question	Possible Products		
a) $0.\underline{07}2 \times 8$	<u>5.76</u>	<u>0.0576</u>	<u>0.576</u>
b) $0.\underline{36}5 \times 4$	<u>1.46</u>	0.146	0.0146

$$72 \times 8$$

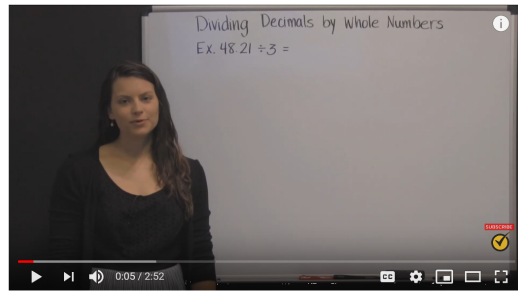
$$.576$$

Need
zero
at end

$$365 \times 4$$

$$1460$$

You had a quiz yesterday, so there was no homework.



Dividing Decimals by Whole Numbers

Ch. 3 Lesson 5

Long Division

This is the one I use



Dividing decimals by a whole number

27.76
Dividend

÷

8
Divisor

Very similar to long division.

- Divide the decimal number by considering it as a whole number by the given whole number.

$$8 \overline{) 27.76}$$

Always estimate to see if the quotient is reasonable

- Mark the decimal point in the quotient such that it has the same number of decimal places as in the decimal number (dividend).

$$\begin{array}{r} 3.47 \\ 8 \overline{) 27.76} \\ \underline{-24} \\ 37 \\ \underline{-32} \\ 56 \\ \underline{-56} \\ 0 \end{array}$$

Then divide normally

Try this one

No remainders but decimal parts

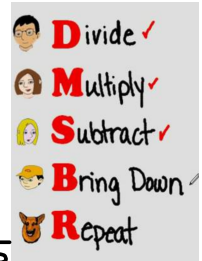
$$9.467 \div 5 = 1.8934$$

$$\begin{array}{r} 1.8934 \\ 5 \overline{) 9.4670} \\ \underline{-5} \\ 44 \\ \underline{-40} \\ 46 \\ \underline{-45} \\ 17 \\ \underline{-15} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

Can always add zeros to the end of decimals, and it does not change the number.

You Try

Divide the following, with long division.



a)

$$\begin{array}{r}
 49504 \div 4 \\
 \underline{12} \cdot 326 \\
 4 \overline{) 49.509} \\
 \underline{7} \downarrow \\
 09 \\
 \underline{-8} \downarrow \\
 15 \\
 \underline{-12} \downarrow \\
 30 \\
 \underline{-28} \downarrow \\
 29 \\
 \underline{-28} \\
 0
 \end{array}$$

b) $35.95 \div 2$

$$\begin{array}{r}
 17.975 \\
 2 \overline{) 35.950} \\
 \underline{-2} \downarrow \\
 15 \\
 \underline{-14} \downarrow \\
 19 \\
 \underline{-18} \downarrow \\
 15 \\
 \underline{-14} \downarrow \\
 10 \\
 \underline{-10} \\
 0
 \end{array}$$

Practice

1. _____ divide.
a) $6.25 \div 5$ b) $4.24 \div 4$ c) $1.68 \div 3$ d) $3.9 \div 6$

2. The decimal point is missing in each quotient.
Use estimation to place each decimal point.

- a) $8.2 \div 2 = 41$ b) $3.81 \div 3 = 127$
c) $1.992 \div 8 = 249$ d) $9.45 \div 5 = 189$
e) $11.916 \div 9 = 1324$ f) $62.8 \div 8 = 785$

3.
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) $2.316 \div 2$



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) $3.438 \div 6$

gr 7
#1abcd
#2abcd
#3abc

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?

