



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) 0.072×8	5.76	0.0576	0.576
b) 0.365×4	1.46	0.146	0.0146

a)
$$\begin{array}{r} 0.072 \\ \times 8 \\ \hline 0.576 \end{array}$$

b)
$$\begin{array}{r} 0.365 \\ \times 4 \\ \hline 1.460 \end{array}$$



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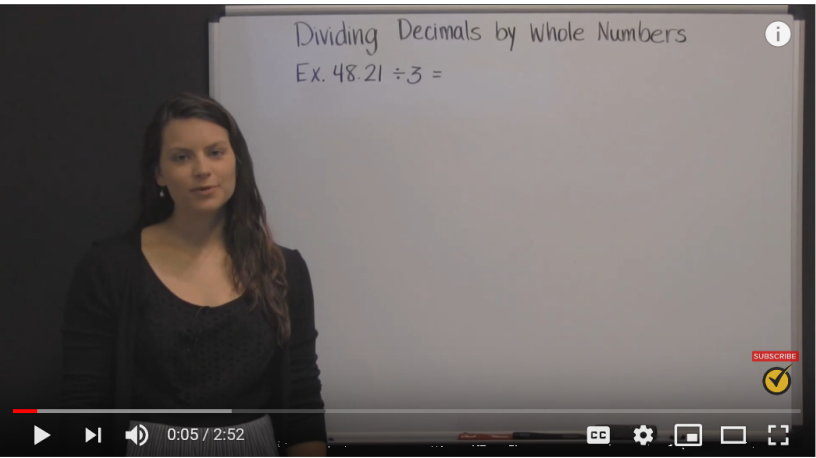


1) Without multiplying, choose the correct product for each multiplication question. Explain your choice each time. Multiply to check

Question	Possible Products		
a) 0.072×8	5.76	0.0576	<u>0.576</u>
b) 0.365×4	<u>1.46</u>	0.146	0.0146

$$\begin{array}{r} 72 \\ \times 8 \\ \hline 576 \end{array}$$

$$\begin{array}{r} 365 \\ \times 4 \\ \hline 1460 \end{array}$$



Dividing Decimals by Whole Numbers

Long Division

This is the one I use

Dividing decimals by a whole number



X

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.

X

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

8, 16, 24, 32

$$\approx 24 \div 8 = 3$$

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).

$$\times 8 \overline{) 27.76}$$

Then divide normally

Do on next page on LINES

Try this one

No remainders but decimal parts

$$9.467 \div 5$$

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

Do on next page on LINES

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

$$a) \quad 8 \overline{) 27.76}$$

$$b) \quad 5 \overline{) 9.467}$$

You Try

Divide the following, with long division.

a)

$$49.504 \div 4 = 12.376$$

$$\begin{array}{r} 12.376 \\ 4 \overline{) 49.504} \\ \underline{-4} \\ 09 \\ \underline{-8} \\ 15 \\ \underline{-12} \\ 30 \\ \underline{-28} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

$$b) 35.95 \div 2$$

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



WS

Do # 1, 2, 3

Practice

b) 4

$$\begin{array}{r} 1.06 \\ 4 \overline{) 4.24} \\ \underline{-4} \\ 0 \\ \underline{-0} \\ 2 \\ \underline{-2} \\ 0 \\ \underline{-0} \\ 4 \\ \underline{-4} \\ 0 \end{array}$$

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.

show the estimation

a) $8.2 \div 2 = 41$ $\approx 8 \div 2 = 4$

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. Calculate the following

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) $2.316 \div 2$

$$\begin{array}{r}
 \text{0.5} \\
 3 \overline{) 1.68} \\
 \underline{-15} \downarrow \\
 18
 \end{array}$$

$$\begin{array}{r}
 0 \\
 3 \overline{) 1.68} \\
 \underline{-0} \downarrow \\
 16
 \end{array}$$

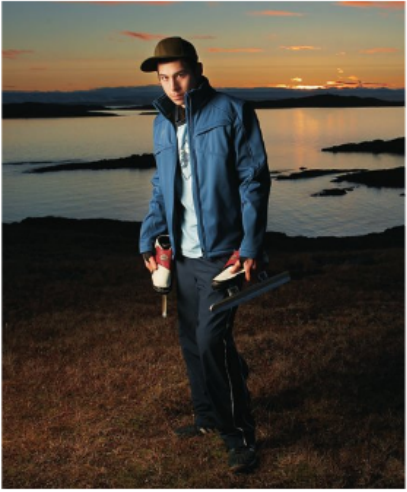
4. Divide. Multiply to check your answers.

- 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) $3.438 \div 6$

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. Aqpik 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, Aqpik skated 2.75 km in 5 min. About how far did Aqpik 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?

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?

