



Warm up Grade 7

Date: _____



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



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$72 \times 8 \approx 70 \times 8$
560

$\approx .560$

≈ 1.200

$\approx 300 \times 4$
1200

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

Name: _____

Answer each of the following WITHOUT a calculator (Show work) BE NEAT

1. $142.36 + 96.214$

$$\begin{array}{r} 142.360 \\ + 96.214 \\ \hline 238.574 \end{array}$$

2) $0.25 + 36.58$

$$\begin{array}{r} 0.25 \\ + 36.58 \\ \hline 36.83 \end{array}$$

3) $96.705 - 14.3$

$$\begin{array}{r} 96.705 \\ - 14.300 \\ \hline 82.405 \end{array}$$

4) $5.605 - 2.988$

$$\begin{array}{r} 5.605 \\ - 2.988 \\ \hline 2.617 \end{array}$$

1. $101.257 + 16.2 + 0.79$

$$\begin{array}{r} 101.257 \\ + 16.200 \\ + 0.790 \\ \hline 118.247 \end{array}$$

6) $52 + 0.14 + 16.8$

$$\begin{array}{r} 52.00 \\ + 0.14 \\ + 16.80 \\ \hline 68.94 \end{array}$$

1. On a trip Jim spent \$45.92 on gas the first day, \$88.24 the second day and \$39.78 the third day. What was the total cost for gas over the three days?

$$\begin{array}{r} 45.92 \\ + 88.24 \\ + 39.78 \\ \hline 173.94 \end{array}$$

The total spent on gas was \$173.94.

8) Karen wants to buy a new watch that cost \$145.73. Her grandmother gave her \$20 for her birthday and she also has \$32.62 saved. How much more money does she need to buy the watch?

$$\begin{array}{r} 20 + 32.62 \\ \hline 52.62 \end{array} \left\{ \begin{array}{r} 145.73 \\ - 52.62 \\ \hline 93.11 \end{array} \right.$$

Karen needs \$93.11 more.

9) A) Model with rectangle 2.4×0.6



12 tenths
24 hundredths

$$\begin{array}{r} 1.2 \\ \times 0.24 \\ \hline 0.44 \end{array}$$

For each of the following use your multiplication square to help answer (No calculators)

10) 0.96×0.7

$$\begin{array}{r} 0.96 \\ \times 0.7 \\ \hline 0.672 \end{array}$$

10) 12.8×7.2

$$\begin{array}{r} 12.8 \\ \times 7.2 \\ \hline 256 \\ + 8960 \\ \hline 9216 \end{array}$$

11) 78.9×5.5

$$\begin{array}{r} 78.9 \\ \times 5.5 \\ \hline 3945 \\ + 39450 \\ \hline 43395 \end{array}$$

12) 108×0.22

$$\begin{array}{r} 108 \\ \times 0.22 \\ \hline 216 \\ + 2160 \\ \hline 2376 \end{array}$$

2 ones 2.00
19 tenths 1.90
24 hundredths 0.24

4.14

11) 0.789×3.7

$$\begin{array}{r} 0.789 \\ \times 3.7 \\ \hline 5523 \\ + 23670 \\ \hline 29193 \end{array}$$

12) 60.3×7.4

$$\begin{array}{r} 60.3 \\ \times 7.4 \\ \hline 2412 \\ + 42210 \\ \hline 44622 \end{array}$$

13) 0.27×0.64

$$\begin{array}{r} 0.27 \\ \times 0.64 \\ \hline 108 \\ + 1620 \\ \hline 0.1728 \end{array}$$

14) 23.6×4.58

$$\begin{array}{r} 23.6 \\ \times 4.58 \\ \hline 1888 \\ + 11800 \\ + 94400 \\ \hline 108088 \end{array}$$

15) Joni wants to buy 18 kg of fruit for her restaurant. The fruit is selling for \$1.58 per kilogram. What will the cost be for the fruit she wants to buy?

$$\begin{array}{r} 1.58 \\ \times 18 \\ \hline 1264 \\ + 1580 \\ \hline 2844 \end{array}$$

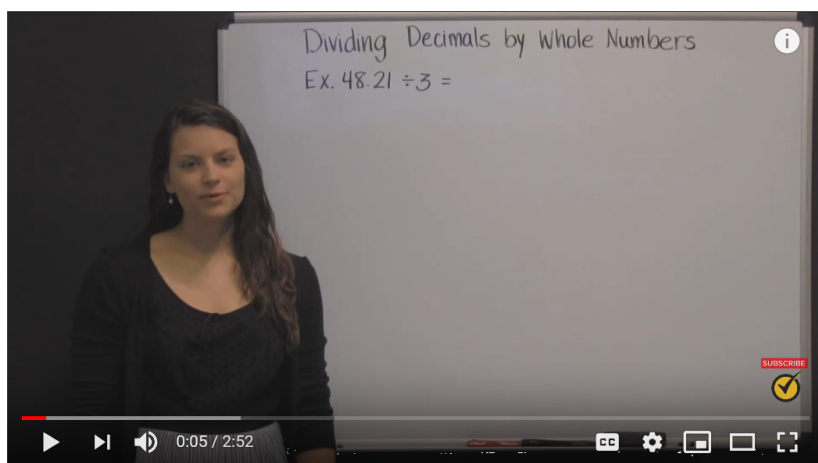
It will cost \$28.44 for 18 kg of fruit.

16) How far can you drive with 50.7 L of gas, if a car can travel 21.2 km with 1 litre?

$$\begin{array}{r} 21.2 \\ \times 50.7 \\ \hline 1484 \\ + 10600 \\ \hline 10744 \end{array}$$

You can drive 1074.84 km in total.

$$\begin{array}{r} 21.2 \\ \times 50.7 \\ \hline 1484 \\ + 10600 \\ \hline 1074.84 \end{array}$$



Dividing Decimals by Whole Numbers

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

D
I
V
I
D
E

Try this one

No remainders but decimal parts






$$9.467 \div 5$$

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

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

You Try

Divide the following, with long division.

-  **D**ivide ✓
-  **M**ultiply ✓
-  **S**ubtract ✓
-  **B**ring Down ✓
-  **R**epeat

a) $49.504 \div 4$

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

b) $35.95 \div 2$

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

Practice

Worksheet

On next 3 slides

(Teacher Note: Pick some to assign as HW)

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) $8.2 \div 2 = 41$ $8 \div 2 = 4$ b) $3.81 \div 3 = 127$
c) $1.992 \div 8 = .249$ $1 \div 8 = 0.$ 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) $3.438 \div 6$

Worksheet



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?



Worksheet



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.
a) Without dividing, how do you know the answer is incorrect?
b) What do you think the student did wrong?
c) 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?

