

64 & 65

12/17

Before Lesson TO DO List:

1. Put your name on your homework.
2. Write the _____ in your agenda.
3. Fill in table of contents

Wksht

p. 64 & 65 L14 Dividing Dec.

A car traveling at a certain speed will travel 76 feet per second. How many yards will the car travel in 120 seconds if it maintains the same speed?

$$\frac{76 \text{ ft}}{1 \text{ sec}} = \frac{\text{ft}}{120 \text{ sec}}$$

$$\text{ft} \div 3 = \text{yd}$$

DIVIDING BY A DECIMAL

DIVIDING BY A DECIMAL

- x10, x100, x1000, etc.*
- In order to make the divisor a whole number, multiply it by a power of ten.
-This is the same as moving the decimal to the right →
 - Multiply the dividend by the same power of ten.
-This is the same as moving the decimal to the right →
 - Divide.
 - Bring the decimal directly above into the quotient.
- ***Remember that whatever you do to the divisor, you have to also do the same to the dividend.

Practice rewriting the division problem by multiplying by the power of ten. Do not solve.

<p>1. $1.2 \overline{) 863.0}$</p> <p>$12 \overline{) 863}$</p>	<p>2. $0.25 \overline{) 740.00}$</p> <p>$25 \overline{) 74000}$</p>	<p>3. $41. \overline{) 525.2}$</p> <p>$41 \overline{) 5252}$</p>
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Divide the following numbers. Be sure to remove any decimals in the dividend by multiplying by a power of ten.

<p>4. $210 \div 3.5$</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td></td><td></td><td></td><td></td><td>6</td><td>0</td></tr> <tr><td>3</td><td>5</td><td>2</td><td>1</td><td>0</td><td>0</td></tr> <tr><td></td><td></td><td>2</td><td>1</td><td>0</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p style="text-align: right; margin-right: 10px;">D M S R</p>					6	0	3	5	2	1	0	0			2	1	0						0	0					0	0					0	0																									<p>5. $856.8 \div 8.4$</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>8</td><td>4</td><td>8</td><td>5</td><td>6</td><td>8</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	8	4	8	5	6	8																																																													<p>6. $58.42 \div .92$</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>9</td><td>2</td><td>5</td><td>8</td><td>4</td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	9	2	5	8	4	2																																																												
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Divide the problems below for extra practice. Roll a pair of dice, and find the sum of the two numbers showing. Solve that problem.

DICE ROLL	SOLVE	SOLUTION
2	$12.42 \div 1.8$	
3	$1400 \div 32$	
4	$195.3 \div 9.3$	
5	$744 \div 60$	
6	$45.88 \div 6.2$	
7	$345 \div 0.75$	
8	$3150 \div 10.5$	
9	$800 \div 125$	
10	$112 \div 0.56$	
11	$278.8 \div 3.4$	
12	$154 \div 28$	

SHOW WORK HERE

7. Filling up a tank of gas costs \$36.96. If the tank holds 16.5 gallons of gas, then how much did each gallon cost?

Summarize today's lesson:

DIVIDING BY A DECIMAL

Nicholas and his sister Jane are shopping at Sweet Sugar Shop. They are trying to calculate how to spend the \$20.00 they each received as allowance. *Round all answers to the nearest hundredth.*

<i>Sweet Sugar Shop</i>			
all prices shown are per pound			
Gum Balls	\$3.48	Lollipops	\$4.88
Sour Straws	\$6.59	Sweet Tarts	\$2.80
Jelly Bellies	\$5.17	Pixie Sticks	\$4.50
Jolly Ranchers	\$3.25	Sour Patch Kids	\$3.99



<p>1. Nicholas scoops a few gum balls into his bag. When he weighs it, he finds that he scooped 0.76 pounds. About how much will the gum balls cost?</p>	<p>2. If Nicholas spends \$8.10 on Pixie Sticks, then how many pounds did he purchase?</p>
<p>3. Nicholas has decided to buy 1.5 pounds of Sour Patch Kids. How much will the Sour Patch Kids cost?</p>	<p>4. Jane measures \$9.75 worth of Jolly Ranchers. How many pounds did she buy?</p>
<p>5. Jane decided that she would spend the rest of her money on Sweet Tarts. About how many pounds of Sweet Tarts did Jane purchase?</p>	<p>6. Between the gum balls, Pixie Sticks, and Sour Patch Kids, how much money will Nicholas have left of his allowance?</p>