Unit: Decimal Operations
Student Handout 5

Name _____

Date _____ Pd_____

DIVIDING BY A DECIMAL

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1. 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 _____ .
2. Multiply the dividend by the same power of ten.
   - This is the same as moving the decimal to the _____ .
3. Divide.
4. Bring the decimal directly above into the _____ .

***Remember that whatever you do to the divisor, you must also do to the _____ .

Practice rewriting the division problem to make the divisor a whole number by multiplying by a power of ten. Do not solve.

1. $1.2\overline{)86.3}$	2. $0.25\overline{)740}$	3. $41\overline{)1525.2}$

Divide the following numbers. Be sure to remove any decimals in the divisor by multiplying by a power of ten.

4. $210 \div 3.5 =$ _____	5. $856.8 \div 8.4 =$ _____	6. $58.42 \div 0.92 =$ _____

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When dividing decimals in real-world situations, consider asking yourself the following questions to guide your thinking and to help understand the situation.

What is being _____ up?

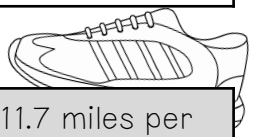
What value represents the number of _____?

Does your solution make sense in the context of the _____?

Practice dividing decimals in the situations below.

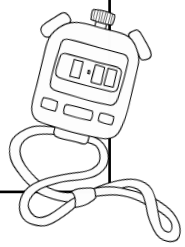
7. Mr. Galan pumped 19.5 gallons of gas into his van. He paid $42.12 in total. What was the price per gallon?

I KNOW:	I NEED TO KNOW:
PLAN AND WORK:	SOLUTION:



8. Brigid ran a 26.2 mile race last Sunday. Her average speed during the race was 11.7 miles per hour. How long did it take Brigid to finish the race? Round your answer to the nearest tenth.

I KNOW:	I NEED TO KNOW:
PLAN AND WORK:	SOLUTION:



Use your understanding of dividing decimals to answer the question below.

9. Three friends solved a division problem. Which friend(s) correctly solved their problem?

DEENA	CORY	MALCOM
$7.15 \div 6.5 = 1.1$	$30.08 \div 0.16 = 18.8$	$9.4 \div 2.5 = 3.76$

Summarize today's lesson:

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