Assignment Record Sheet
Math Core B

Full Name: _____

Week: 11/11-11/15

Unit Name: _Decimal Ops_____ Period: 2

Date Assigned	Focus Question??	Homework (IP=in packet)	Meets Expectation (15 points)	Approaching Expectations (5 points)	Below Expectation (0 points)
Monday Nov. 11		**Veterans Day No School**	WU: CW: HW:		
Tuesday Nov. 12	*How can a decimal division problem be written in equivalent fraction and whole number form?*	WU: None CW: STAR 360 HW: None	WU: CW: HW:		
Wed. Nov. 13	*How can a decimal division problem be written in equivalent fraction and whole number form?*	WU: None CW: Math Review HW: None	WU: CW: HW:		
Thursday Nov. 14	*How can a decimal division problem be written in equivalent fraction and whole number form?*	WU: Card Sort (IP) CW: Prob. 3.3 A-B p.48 Video launch HW: ACE #24-25 p. 60	WU: CW: HW:		
Friday Nov. 15	*How can you carry out a decimal division using a method similar to long division of whole numbers?*	WU: Decimal Division (IP) CW: Prob. 3.4 A (IP) & B p. 52 HW: None **Turn in your packet**	WU: CW: HW:		

Total Homework Score for the Week: _____/60

Daily Materials Score _____/20

Labsheet 3.3 Card Sort

$84 \div 42 = N$ 32	$\dfrac{84}{100} \div \dfrac{42}{100} = N$ 26	$84 \div 420 = N$ 31	$N = 20$ 39
$8.4 \div 4.2 = N$ 8	$840 \div 42 = N$ 27	$8{,}400 \div 42 = N$ 16	$\dfrac{840}{100} \div \dfrac{42}{100} = N$ 21
$\dfrac{8{,}400}{1{,}000} \div \dfrac{42}{1{,}000} = N$ 22	$0.84 \div 0.42 = N$ 14	$\dfrac{84}{100} \div \dfrac{420}{100} = N$ 19	$0.84 \div 4.2 = N$ 7
$8.4 \div 0.42 = N$ 9	$\dfrac{84}{10} \div \dfrac{42}{10} = N$ 20	$N = 0.2$ 25	$8.4 \div 0.042 = N$ 10
$N = 200$ 28	$N = 2$ 38	$0.84 \div 0.042 = N$ 15	$\dfrac{84}{1{,}000} \div \dfrac{42}{1{,}000} = N$ 33

Problem 3.4 | Warm Up

Decimal Division

To divide decimal numbers such as $7.8 \div 0.13$, you have a choice of two methods. In each case, you use whole-number division.

Common Denominator Strategy
You can write *both* the dividend and the divisor as fractions with a common denominator.

$$\frac{780}{100} \div \frac{13}{100}$$

Then find the quotient of the numerators.

$$\frac{780}{13} = 60$$

OR

Equivalent Fraction Strategy
You can write the division as *one* fraction involving decimals and then use equivalent fractions such as:

$$7.8 \div 0.13 = \frac{7.8}{0.13}$$

That fraction is equivalent to $\frac{780}{13}$.

$$\frac{780}{13} = 60$$

- Why is $7.8 \div 0.13$ equivalent to $\frac{780}{100} \div \frac{13}{100}$?

- Why is $\frac{7.8}{0.13}$ equivalent to $\frac{780}{13}$?

Problem 3.4   Warm Up

Decimal Division

Suppose two boys who live near a golf course search for lost golf balls. They collect 6,324 balls and package them for resale.

- How many packs of 12 golf balls can be made from a supply of 6,324 balls?

- If 6,324 golf balls are packed in 12 boxes, how many balls will be in each box?

- What number sentence (or sentences) can you write to describe this situation?

Problem 3.4   Long Division Algorithm

Problem A

The work below shows one strategy for carrying out long division to find the quotient 6,324 ÷ 12. Explain each step.

Step 1	Step 2	Step 3
		7
	20	20
500	500	500
12)6324	12)6324	12)6324
−6000	−6000	−6000
324	324	324
	−240	−240
	84	84
		−84
		0

Conclusion: 6,324 ÷ 12 = 527