

Lesson 3-6 – Plotting Decimals

Objectives:

- Students will divide positive integers from the multiplication table without remainders, as evidenced by them passing one-minute quizzes.
- Students will plot mixed numbers on the number line, as evidenced by them completing a warm-up worksheet where they do so.
- Students will plot ordered pairs with decimal coordinates on the coordinate plane, as evidenced by them completing a homework assignment where they do so.

Student Materials on Desk Corner:

- Homework #3-5
- Homework Checker
- Warm-up & Notes Checker

Student Materials for Class:

- Homework Log
- Binder Paper
- Pencils

Teacher Materials:

- “Minute Quiz 3-6” for each student
- “Warm-up 3-6” for each student
- “Unit Calendar” transparency
- “Homework #3-6” handout for each student

Homework:

- Finish Homework #3-6
- Continue 1 hour of ALEKS

Time	Activity
10 min	<p style="text-align: center;">MINUTE QUIZ AND ATTENDANCE</p> <p>Minute Quiz and Warm-up When the bell rings, quickly go around and put the minute quiz on each student’s desk, face down. Then, start everyone on the quiz at the same time and give everyone one minute. While students are working on the quiz, pass out the warm-ups so that students can work on them once they’re done with the minute quiz. After the minute is over, have a student collect the minute quizzes and give them to the teacher’s aide (TA) to grade.</p> <p>Attendance, Collect HW, and Warm-up Check While students work on the warm-up, take attendance and have the TA collect homework & stamp homework checkers. At the end of the allotted time, go around and stamp the students’ warm-up & notes checkers.</p>
25 min	<p style="text-align: center;">LESSON</p> <p>Put up the unit calendar transparency and show students where they are in the unit. Then, teach the lesson using the notes. Once students are finished, stamp their warm-up & notes checkers.</p>
10 min	<p style="text-align: center;">CLASSWORK</p> <p>Give students the homework assignment as their classwork. They must plot five points before they may work on ALEKS.</p>
35 min	<p style="text-align: center;">ALEKS</p> <p>When students finish their classwork, they should continue with ALEKS. Use this student work time to return graded homework.</p>

Solve the following division problems. You have exactly one minute!

$96 \div 12 =$

$84 \div 7 =$

$8 \div 4 =$

$96 \div 8 =$

$24 \div 6 =$

$33 \div 11 =$

$40 \div 10 =$

$96 \div 8 =$

$28 \div 4 =$

$54 \div 6 =$

$90 \div 10 =$

$81 \div 9 =$

Solve the following division problems. You have exactly one minute!

$96 \div 12 =$

$84 \div 7 =$

$8 \div 4 =$

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$90 \div 10 =$

$81 \div 9 =$

Solve the following division problems. You have exactly one minute!

$4 \div 2 =$

$35 \div 5 =$

$99 \div 11 =$

$16 \div 4 =$

$12 \div 2 =$

$16 \div 2 =$

$40 \div 8 =$

$30 \div 10 =$

$18 \div 6 =$

$99 \div 9 =$

$24 \div 2 =$

$88 \div 8 =$

Solve the following division problems. You have exactly one minute!

$4 \div 2 =$

$35 \div 5 =$

$99 \div 11 =$

$16 \div 4 =$

$12 \div 2 =$

$16 \div 2 =$

$40 \div 8 =$

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$16 \div 2 =$

$40 \div 8 =$

$30 \div 10 =$

$18 \div 6 =$

$99 \div 9 =$

$24 \div 2 =$

$88 \div 8 =$

Solve the following division problems. You have exactly one minute!

$12 \div 6 =$

$72 \div 8 =$

$99 \div 11 =$

$35 \div 5 =$

$50 \div 10 =$

$2 \div 1 =$

$6 \div 3 =$

$12 \div 3 =$

$21 \div 3 =$

$110 \div 10 =$

$36 \div 4 =$

$18 \div 6 =$

Solve the following division problems. You have exactly one minute!

$12 \div 6 =$

$72 \div 8 =$

$99 \div 11 =$

$35 \div 5 =$

$50 \div 10 =$

$2 \div 1 =$

$6 \div 3 =$

$12 \div 3 =$

$21 \div 3 =$

$110 \div 10 =$

$36 \div 4 =$

$18 \div 6 =$

Solve the following division problems. You have exactly one minute!

$12 \div 6 =$

$72 \div 8 =$

$99 \div 11 =$

$35 \div 5 =$

$50 \div 10 =$

$2 \div 1 =$

$6 \div 3 =$

$12 \div 3 =$

$21 \div 3 =$

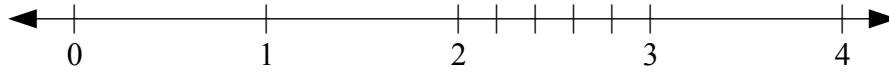
$110 \div 10 =$

$36 \div 4 =$

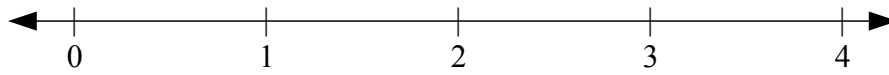
$18 \div 6 =$

Plot the following fractions on the number line provided for you.

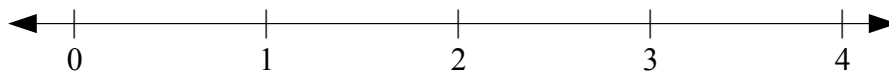
Ex) $2\frac{3}{5}$



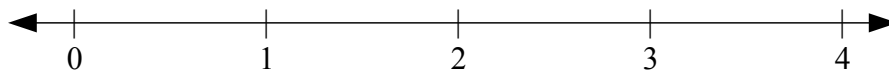
1) $1\frac{1}{2}$



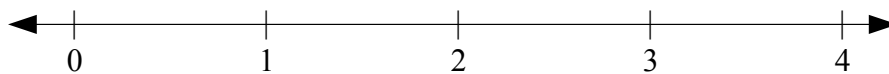
2) $\frac{3}{8}$



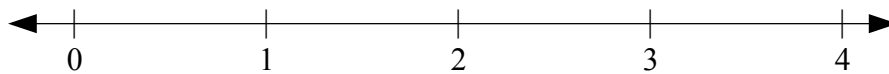
3) $3\frac{7}{10}$



4) $2\frac{3}{4}$

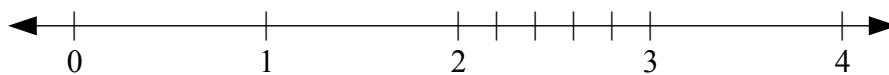


5) $1\frac{4}{10}$

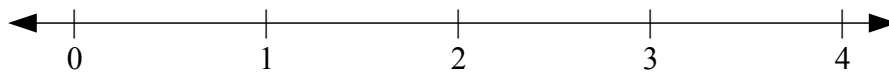


Plot the following fractions on the number line provided for you.

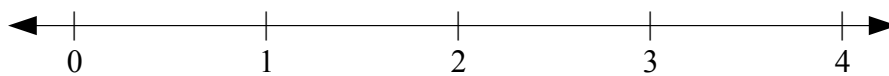
Ex) $2\frac{3}{5}$



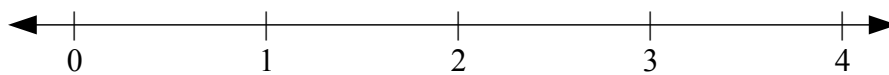
1) $1\frac{1}{2}$



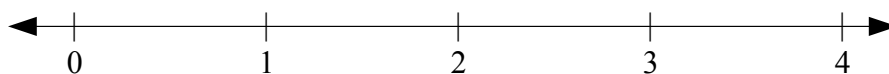
2) $\frac{3}{8}$



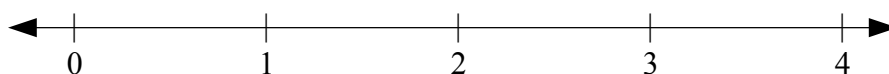
3) $3\frac{7}{10}$



4) $2\frac{3}{4}$



5) $1\frac{4}{10}$



Plotting Decimals

Section → Place Value Review

Ex: Write 23.45 in expanded form.

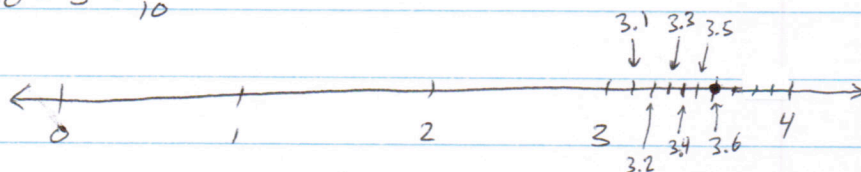
100's	10's	1's	1/10's	1/100's	1/1000's
	2	3	4	5	

So, $23.45 = 20 + 3 + \frac{4}{10} + \frac{5}{100}$

Section → Plotting Decimals

Ex: Plot 3.6 on the number line.

$$3.6 = 3 + \frac{6}{10}$$



Ex: Plot -1.4 on the number line.

$$1.4 = 1 + \frac{4}{10}$$

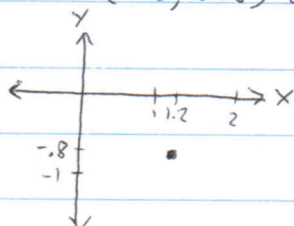


Ex: Plot 2.37 on the number line.

$$2.37 = 2 + \frac{3}{10} + \frac{7}{100}$$



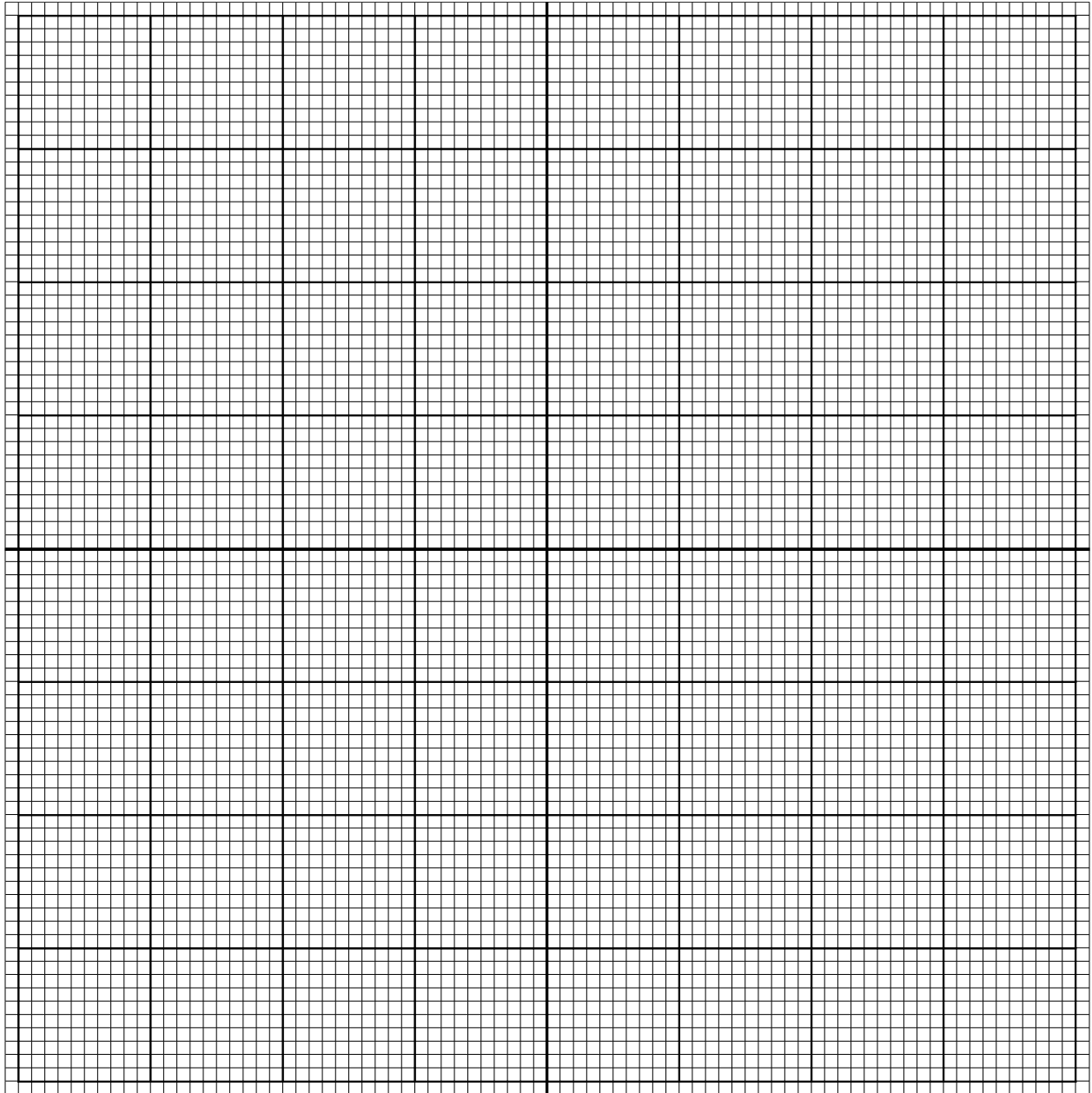
Ex: Plot (1.2, -0.8) on the coordinate plane.



GRAPH PAPER

Label the axes "x" and "y."

Label on each axis the following values: -4, -3, -2, -1, 0, 1, 2, 3, and 4. Every ten squares counts as 1.



LOOK WHAT FOLLOWED ME HOME, MA!

Directions: In the order listed below, plot each ordered pair on the coordinate plane on the back of your paper. As you plot them, connect each point with a line segment. Start a new line after the words "Line Ends."

(0.2, -0.6)	(1.4, -1)	(-0.4, 1.8)	(-1.4, 0.2)
(0.4, -0.8)	(2.4, -1)	(-0.6, 1.4)	(-1.8, 0)
(0.4, -1.6)	(2.8, -0.8)	(-0.6, 0.4)	(-2, -0.6)
(0, -2)	(3.2, -1.6)	(-0.4, -0.6)	(-2, -1)
(0, -2.2)	(3.2, -2.2)	(0, -0.8)	(-1.8, -1.4)
(0.8, -2.2)	(3, -2.4)	(0.2, -0.6)	(-1.6, -1.2)
(0.8, -0.8)	(2.8, -2.4)	(0.4, 0)	(-1.4, -0.2)
Line Ends	(2.6, -2.6)	(0.4, 1.2)	Line Ends
	(2.6, -2.8)	(0.2, 2)	
(0.6, -0.4)	(3.6, -2.8)	(-0.2, 2.2)	(-1.4, 0.8)
(1, -1.2)	(3.6, -1.2)	(-1.4, 2.2)	(-1.4, 0.2)
(1, -2.2)	(3.4, -0.2)	(-1.8, 2)	(-1.2, 0.2)
(0.8, -2.4)	(3.4, 0.6)	(-2, 1.8)	Line Ends
(0.6, -2.4)	(3.6, 1.2)	(-2.6, 1.6)	
(0.4, -2.6)	(3.6, 1.8)	(-3.6, 1.4)	(-1.4, 0.2)
(0.4, -2.8)	(3.4, 2.4)	(-3.4, 0.6)	(-1.6, 0)
(1.4, -2.8)	(3, 2.8)	(-3, 0.2)	(-1.8, -0.6)
(1.4, -0.6)	(3.2, 2.2)	(-2.6, 0)	Line Ends
Line Ends	(3.2, 1.2)	(-2, 0)	
	(3, 1)	(-1.6, 0.4)	(-3.4, 1)
	(0.8, 1)	(-1.4, 0.8)	(-3.2, 0.8)
	(0.4, 1)	(-1.2, 1.4)	(-3, 1)
	Line Ends	(-1.2, 0)	(-3, 1.2)
		(-1.4, -0.2)	Line Ends
	(2.6, -0.9)	(-1, -0.2)	
	(2.6, -1.6)	(-0.6, 0)	(-1.8, 2)
	(2.2, -2)	Line Ends	(-1.4, 1.8)
	(2.2, -2.2)		(-1.2, 1.8)
	(3, -2.2)		Line Ends
	(3, -1.2)		
	Line Ends		

WATCH YOUR FINGERS

Directions: In the order listed below, plot each ordered pair on the coordinate plane on the back of your paper. As you plot them, connect each point with a line segment. Start a new line after the words "Line Ends."

(2.2, 1.6)	(1.4, -1.8)	(-1.8, -0.8)	(1.4, 2.2)
(2.4, 1.6)	(1.2, -1.8)	(-2.2, -0.6)	(1.6, 2)
(2.4, 1.4)	(1.2, -2)	(-2.6, -0.8)	(1.4, 1.8)
(2.2, 1.2)	(1.4, -2.4)	(-2.8, -1.4)	(1.2, 2)
(-0.8, 1.2)	(1, -2.2)	(-2.4, -2)	(1.4, 2.2)
(-1.4, 1.4)	(1, -2.4)	(-1.8, -2.4)	Line Ends
(-1.4, 1.8)	(0.8, -2.2)	(-2.4, -2.4)	
(-1.2, 1.8)	(0.6, -2.4)	(-3, -2.2)	(2, 2.2)
(-1, 1.6)	(0.6, -1.4)	(-3.4, -1.6)	(2.2, 2)
(0.4, 1.6)	(1.4, -1.4)	(-3.4, -0.8)	(2, 1.8)
(0.8, 1.8)	Line Ends	(-2.8, 0)	(1.8, 2)
(1.2, 2.4)		(-2, 0.4)	(2, 2.2)
(1.2, 2.6)	(0.6, -1.8)	(-1.2, 0.6)	Line Ends
(1.6, 2.6)	(0.2, -1.6)	(0.2, 0.6)	
(1.6, 2.4)	(-0.4, -1.6)	(1, 0.4)	
(1.8, 2.4)	(-1, -1.2)	(1.6, 0)	
(1.8, 2.6)	(-1.2, -1.4)	Line Ends	
(2.2, 2.6)	(-1.2, -1.8)		
(2.6, 2.2)	(-1, -2)	(1.4, -0.2)	
(2.8, 2)	(-1.4, -1.8)	(1.6, 0)	
(3.2, 1.8)	(-1.4, -2)	(1.6, 0.8)	
(3.2, 1.4)	(-1.6, -1.8)	(1.2, 1)	
(2.6, 0.8)	(-1.8, -2)	(-0.8, 1)	
(2.6, -1.4)	(-1.8, -0.8)	(-1.2, 1.2)	
(3.2, -1.4)	(-1.4, -0.4)	(-1.2, 1.3)	
(3.4, -1.6)	Line Ends	Line Ends	
(3.4, -2.2)			
(3.6, -2.4)			
(3.2, -2.2)			
(3.2, -2.4)			
(3, -2.2)			
(2.8, -2.4)			
(2.8, -1.8)			
(2.6, -1.8)			
(2, -2.2)			
(1.6, -2.2)			
(1.2, -2)			
Line Ends			

MY DOCTOR TOLD ME TO LOSE 5000 KILOGRAMS

Directions: In the order listed below, plot each ordered pair on the coordinate plane on the back of your paper. As you plot them, connect each point with a line segment. Start a new line after the words "Line Ends."

(3.2, 3.4)	(0.4, -3.2)	(1.4, 0.8)	(2.6, 4.4)
(2.8, 3.4)	(0.2, -3.2)	(1.6, 1)	(2.4, 4.2)
(2.6, 2.8)	(-0.4, -3)	(1.8, 2)	(2.4, 4)
(2.6, 1.8)	(-0.8, -2.6)	(2.2, 3.2)	(2.6, 3.8)
(2.8, 1)	(-1, -2.2)	(1.8, 3.6)	Line Ends
(3, 0.6)	Line Ends	(2, 4)	
(3.2, -0.4)		(2.2, 4.2)	(3, 4.2)
(3.2, -0.6)	(2.6, 4.2)	(2.6, 4.4)	(3, 4)
(3, -1.4)	(2.6, 4)	(3.2, 4.2)	(2.8, 3.8)
(2.4, -2.2)	Line Ends	(3.6, 4)	Line Ends
(1, -3.4)		(3.8, 4)	
(1, -3.8)	(2.8, 4.2)	(4, 3.8)	
(1.2, -4)	(2.8, 4)	(3.6, 3.4)	
(1.2, -4.2)	Line Ends	(3.2, 3.4)	
(0.6, -4)		(2.8, 3.6)	
(0.6, -3.6)	(-1.4, -2.4)	(2.6, 3.4)	
(0.4, -3.2)	(-2, -2.8)	Line Ends	
(0.2, -3)	(-2.6, -3)		
Line Ends	(-3, -3)	(-0.6, -2.8)	
	(-3.8, -2.8)	(-0.8, -3)	
(2, -2.6)	(-3.2, -2.8)	(-0.8, -3.4)	
(1.8, -3)	(-2.8, -2.6)	(-0.6, -3.6)	
(1.8, -3.4)	(-2.4, -2.2)	(-0.6, -3.8)	
(2, -3.6)	(-2, -0.8)	(-1.2, -3.6)	
(2, -3.8)	(-1.6, 1.2)	(-1.2, -3)	
(1.4, -3.8)	(-1.4, 1.8)	(-1.8, -1.2)	
(1.4, -3.1)	(-1.2, 2.2)	(-1.8, -0.8)	
Line Ends	(-0.8, 2.6)	Line Ends	
	(0, 2.8)		
	(0.2, 2.8)		
	(0.6, 2.6)		
	(1.7, 1.6)		
	Line Ends		