Grade 7 Units 6 & 7 Week 7

Parents: Please help your child choose the most appropriate assignment(s) to complete each day. When the day's assignment is done, students finish the two reflection statements on this page.

Please note Extra Practice activities are on-level for the grade level. Re-Engage activities give students additional support.

Special Education students should use the Re-Engage lessons as shown in the weekly plans.

	Monday	Tuesday	Wednesday	Thursday	Friday
Topic	Solve and graph inequalities using addition and subtraction.	Solve and graph inequalities using multiplication and division.	Calculate the circumference of a circle using the radius or diameter.	Calculate area of a circle.	Calculate the volume of three-dimensional figures.
Assignment	Unit 6 Lesson 9 Re-Engage	Unit 6 Lesson 10 Re-Engage A Re-Engage B Extra Practice	Unit 7 Lesson 2 Re-Engage A Re-Engage B	Unit 7 Lesson 3 Re-Engage Extra Practice	Unit 7 Lesson 8 Re-Engage Extra Practice
Video link	Unit 6 Lesson 9 **Student Support Video**	Unit 6 Lesson 10 **Student Support Video**	Unit 7 Lesson 2 **Student Support Video**	Unit 7 Lesson 3 **Student Support Video**	Unit 7 Lesson 8 **Student Support Video**
Fluency Practice	Integers Addition Fluency C	Integers Subtraction Fluency C	Integers Multiplication Fluency C	Integers Division Fluency C	Fraction-Decimal Conversion Fluency C
Reflection	One thing I was successful with is… One thing I need more help with is…	One thing I was successful with is… One thing I need more help with is…	One thing I was successful with is… One thing I need more help with is…	One thing I was successful with is… One thing I need more help with is…	One thing I was successful with is… One thing I need more help with is…

Find this packet on swunmath.com. Click on the hyperlinks to jump to the lesson videos.

Re-Engage

Unit 6 Lesson 8-9: Graph Inequalities

Name: _____

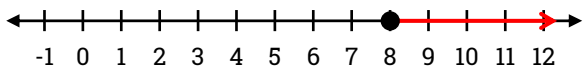
Date: _____

Model

$x \geq 8$

closed point

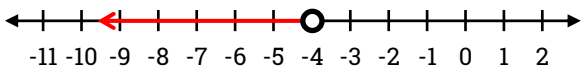
1. Place the closed point at 8.
2. Greater than means draw the arrow to the right.



$x < -4$

open point

1. Place the open point at −4.
2. Less than means draw the arrow to the left.



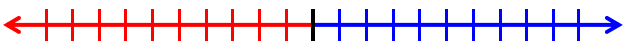
Structured Guided Practice

Directions: Graph the inequality.

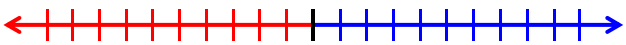
1. $x \geq 12$

2. $x > 7$

3. $x < 3$



4. $x \leq -6$



Re-Engage

Unit 6 Lesson 8-9: Graph Inequalities

Student Practice

Directions: Graph the inequality.

1. $x > 2$	2. $x \geq 5$
3. $x \geq 9$	4. $x < 13$
5. $x < -10$	6. $x \leq -7$

Re-Engage

Unit 6 Lesson 10a: Multiply Negative Numbers

Name: _____

Date: _____

Model

$-7 \times (-6)$ 1. Count the negative signs: **2** ã Even number = positive answer ã Odd number = negative answer 2. Multiply without the negative signs. $7 \times 6 = 42$ 3. Determine if answer is negative. Since the problem has <u>two negatives</u>, and 2 is an <u>even</u> number, the solution is <u>positive.</u> **42**	-8×2 1. Count the negative signs: **1** ã Even number = positive answer ã Odd number = negative answer 2. Multiply without the negative signs. $8 \times 2 = 16$ 3. Determine if answer is negative. Since the problem has <u>one negative</u>, and 1 is an <u>odd</u> number, the solution is <u>negative</u>. **-16**

Structured Guided Practice

Directions: Multiply.

1. $-2 \times (-9)$	2. $-12 \times (-3)$
3. -6×10	4. -2×13

Re-Engage

Unit 6 Lesson 10a: Multiply Negative Numbers

Student Practice

Directions: Multiply.

1. $-6 \times (-7)$	2. $-8 \times (-11)$
3. $-3 \times (-4)$	4. -16×2
5. -8×9	6. -2×20

Re-Engage

Unit 6 Lesson 10b Divide Negative Numbers

Name: _____

Date: _____

Model

$-12 \div (-4)$	$-18 \div 6$
1. Count the negative signs: **2** ã Even number = positive answer ã Odd number = negative answer	1. Count the negative signs: **1** ã Even number = positive answer ã Odd number = negative answer
2. Divide without the negative signs. $12 \div 4 = 3$	2. Divide without the negative signs. $18 \div 6 = 3$
3. Determine if answer is negative. Since the problem has <u>two negatives</u>, and 2 is an <u>even</u> number, the solution is <u>positive.</u>	3. Determine if answer is negative. Since the problem has <u>one negative</u>, and 1 is an <u>odd</u> number, the solution is <u>negative.</u>
3	-3

Structured Guided Practice

Directions: Divide.

1. -24 ÷ (-8)	2. -27 ÷ (-9)
3. -42 ÷ 6	4. -54 ÷ 9

Re-Engage

Unit 6 Lesson 10b Divide Negative Numbers

Student Practice

Directions: Divide.

1. -64 ÷ (-8)	2. -72 ÷ (-9)
3. -36 ÷ (-4)	4. -63 ÷ 7
5. -28 ÷ 14	6. -55 ÷ 5

Extra Practice

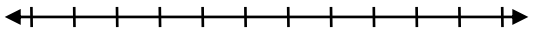
Unit 6 · Lessons 8, 9 & 10: Inequalities

Name: _____

Date: _____

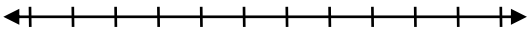
Directions: Solve and graph.

1. To vote in the United States, you must be a citizen of the United States and at least 18 years of age.



2. The product of 0.7 and a number is less than 16.

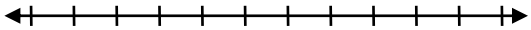
3. $3x + 6 \geq 15$



4. $5 > x - 3$

5. $-3x < 15$

6. $x + 12 \geq 5$



7. Tammy needs at least an 85% in order to pass her chemistry class.

8. $7 < 3 + x$

Re-Engage

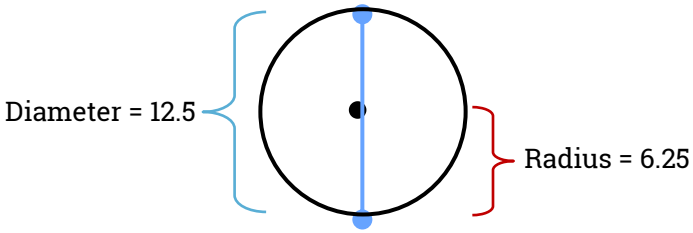
Unit 7 Lesson 1-2a: Identify the Radius

Name: _____

Date: _____

Model

Circles



Diameter (d): the distance across a circle through the center

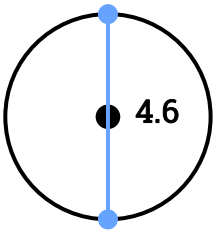
Radius (r): the distance from the center of a circle to any point on the circle; is always half the length of the diameter

12.5 (diameter) ÷ 2 = 6.25 (radius)

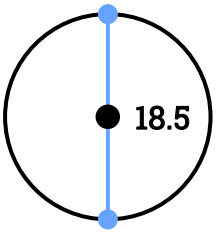
Structured Guided Practice

Directions: Calculate the radius.

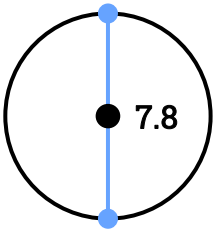
1.



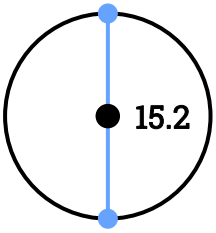
2.



3.



4.



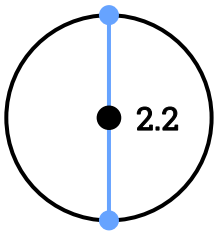
Re-Engage

Unit 7 Lesson 1-2a: Identify the Radius

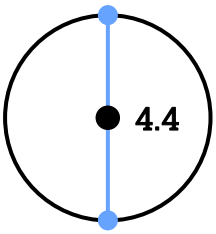
Student Practice

Directions: Calculate the radius.

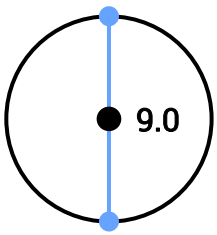
1.



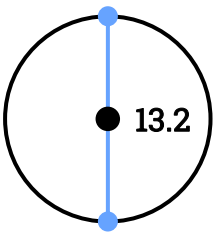
2.



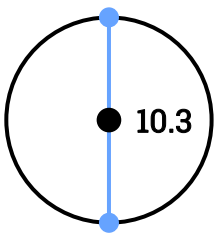
3.



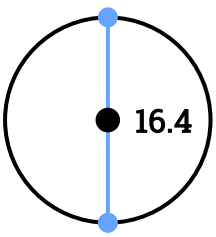
4.



5.



6.



Re-Engage

Unit 7 Lesson 1-2b: Circumference Given Diameter

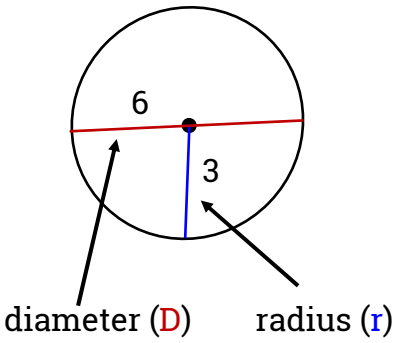
Name: _____

Date: _____

Model

Circumference

$$C = 2\pi r \text{ or } C = \pi D$$



If given the <u>diameter</u>, use $C = \pi D$.

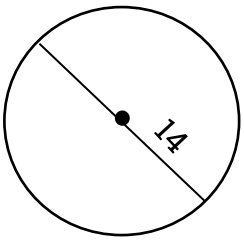
$C = 3.14\ (6)$

$C = 18.84$

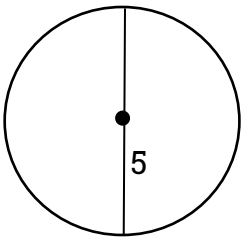
Structured Guided Practice

Directions: Find the circumference. Use 3.14 for pi. Round answer to the nearest tenth.

1.



2.



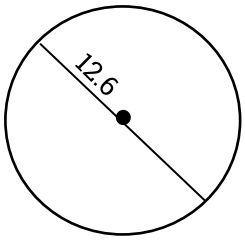
Re-Engage

Unit 7 Lesson 1-2b: Circumference Given Diameter

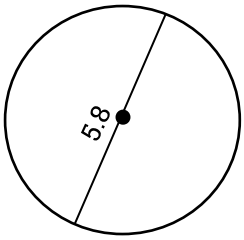
Student Practice

Directions: Find the circumference. Use 3.14 for pi. Round answer to the nearest tenth.

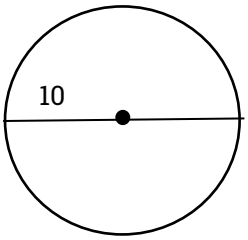
1.



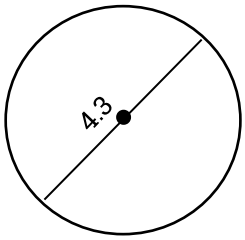
2.



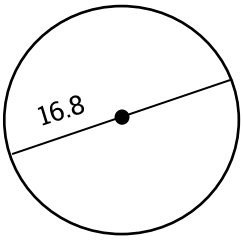
3.



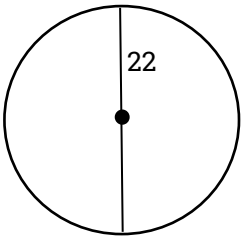
4.



5.



6.



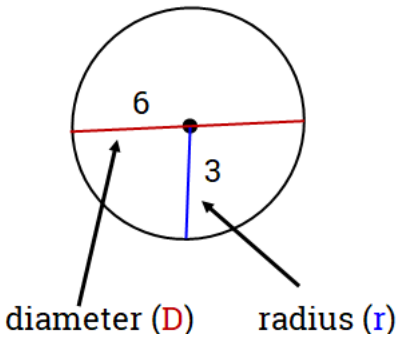
Re-Engage
Unit 7 Lesson 3: Area Given Radius

Name: _____

Date: _____

Model

Area of a Circle



$$A = \pi r^2$$

If given the radius, use $A = \pi r^2$.

$A = 3.14 (3^2)$

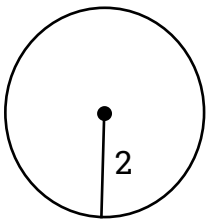
$A = 28.26$

*Note: When given the diameter, split the number in half to make the radius.

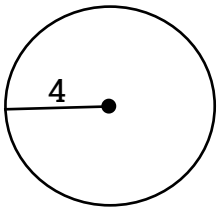
Structured Guided Practice

Directions: Calculate the area. Use 3.14 for pi. Round answer to the nearest hundredth.

1.



2.



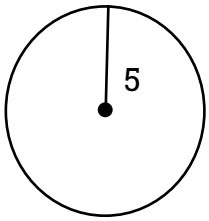
Re-Engage

Unit 7 Lesson 3: Area Given Radius

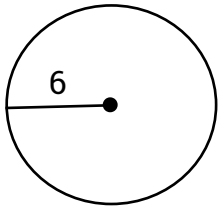
Student Practice

Directions: Calculate the area. Use 3.14 for pi. Round answer to the nearest hundredth.

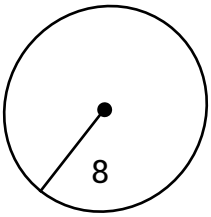
1.



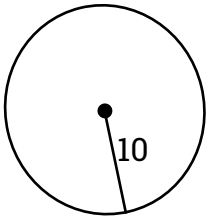
2.



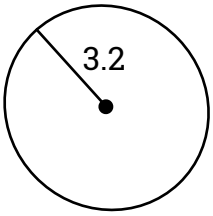
3.



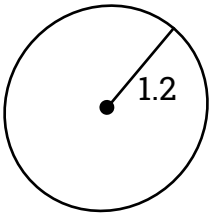
4.



5.



6.



Extra Practice

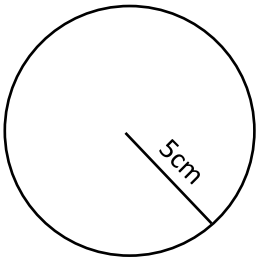
Unit 7 · Lessons 1, 2, & 3: Circumference and Area of Circles

Name: _____

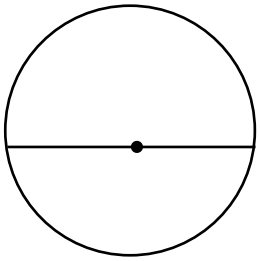
Date: _____

Directions: Read and Solve. If finding the area or the circumference, use 3.14 for π and round answers to the nearest hundredth.

1. Find the area.



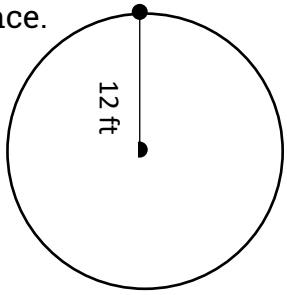
2. Find the circumference



3. A replica of the sun was created. If the diameter of the replica is 15 feet, what is the area of the replica of the sun?

4. A round clock has a radius of 15 inches. What is the circumference of the clock?

5. Find the circumference.



6. Sally's frying pan is 6.5 inches in diameter. What is the area of her frying pan?

7. Adam bought a rug shaped as a semicircle that has a radius of 2 yards. What is the circumference of the rug?

8. Andy is fencing off a semi-circular area in is backyard against a wall. The semi-circular area has a diameter of 25 feet. The fencing will go along the arc only. How much fencing does Andy need?

Re-Engage

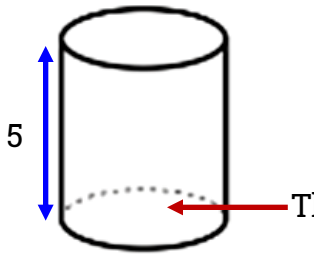
Unit 7 Lesson 8: Determine Volume Formula

Name: _____

Date: _____

Volume

To find the volume of a solid figure, find the area of the base (B), then multiply by the height (h).



$V = B \cdot h$

The base is the shape of a circle.

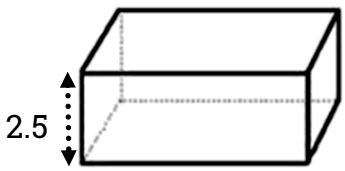
The **base** is a circle. Area of a circle = πr^2

Volume = $\pi r^2 \cdot 5$

Structured Guided Practice

Directions: Read and solve.

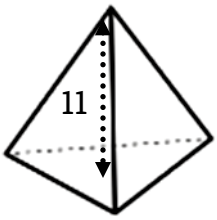
1.



The base is a _____. Area= _____

Volume = _____

2.



The base is a _____. Area=_____

Volume = _____

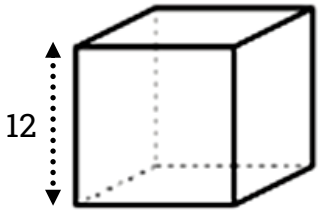
Re-Engage

Unit 7 Lesson 8: Determine Volume Formula

Student Practice

Directions: Read and solve.

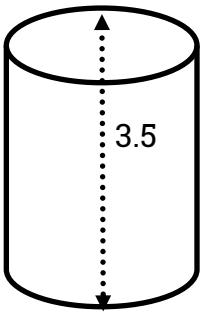
1.



The base is a _____. Area = _____

Volume = _____

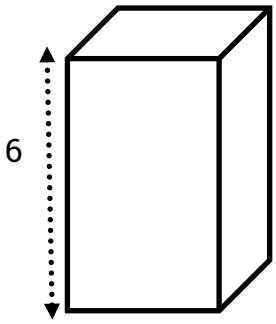
2.



The base is a _____. Area =_____

Volume = _____

3.



The base is a _____. Area=_____

Volume = _____

Extra Practice

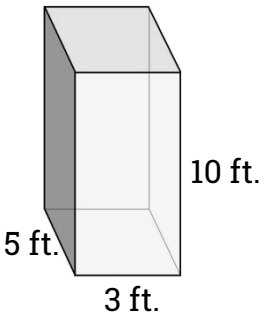
Unit 7 · Lesson 8: Volume

Name: _____

Date: _____

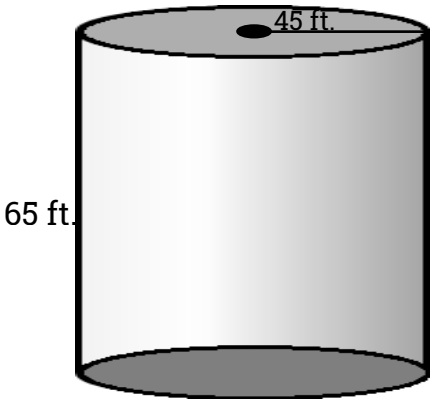
Directions: Find the volume.

1.

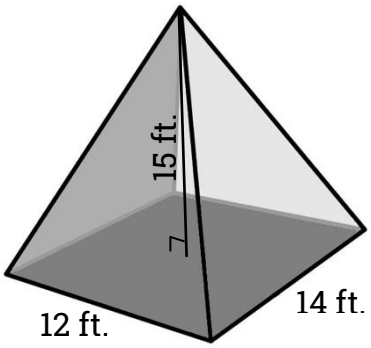


2. A tube is 30 inches tall and has a diameter of 8 inches. What is the volume?

3.



4.



5. A gift box given at a department store has the following dimensions, w = 24 in, l = 15 in and h = 3 in. What is the volume of the box?

6. What is the volume of a pyramid with a base length of 250 ft, a base width of 200 ft and an overall height of 210 ft?

Integers: Addition Fluency C
(70 items)

Name_____ **Date**_____

$-3 + 9 =$	$8 + -1 =$	$7 + -4 =$	$-6 + -3 =$	$-9 + 2 =$	$5 + -3 =$	$8 + -2 =$
$-4 + 9 =$	$-7 + 3 =$	$-4 + -5 =$	$-9 + -5 =$	$-3 + 3 =$	$-2 + -8 =$	$-4 + 2 =$
$-9 + -4 =$	$-7 + -2 =$	$-9 + 1 =$	$4 + -9 =$	$3 + -8 =$	$-3 + -5 =$	$-9 + 9 =$
$6 + -3 =$	$-2 + 7 =$	$-9 + -7 =$	$-4 + -6 =$	$-5 + 8 =$	$-8 + 6 =$	$-8 + 9 =$
$-6 + 8 =$	$-7 + 5 =$	$-6 + -6 =$	$4 + -7 =$	$-3 + 2 =$	$6 + -7 =$	$8 + -4 =$
$-6 + -2 =$	$-9 + 5 =$	$-8 + -3 =$	$-5 + 7 =$	$-4 + 7 =$	$-2 + -5 =$	$0 + 6 =$
$5 + -9 =$	$7 + -9 =$	$6 + -1 =$	$-4 + -8 =$	$-2 + 4 =$	$-8 + -9 =$	$4 + -4 =$
$-2 + -3 =$	$-8 + -4 =$	$-9 + 8 =$	$-6 + -4 =$	$-4 + -3 =$	$3 + -4 =$	$-5 + -5 =$
$-7 + -1 =$	$-7 + -7 =$	$-2 + 6 =$	$-7 + -8 =$	$-3 + -7 =$	$-9 + 6 =$	$-9 + 4 =$
$-2 + -2 =$	$7 + -6 =$	$-8 + 5 =$	$8 + -7 =$	$-5 + 6 =$	$-6 + -5 =$	$-5 + 4 =$

Integers: Subtraction Fluency C
(70 items)

Name_____ **Date**_____

$-7 - -7 =$	$-5 - 7 =$	$-9 - 6 =$	$0 - 6 =$	$-8 - 5 =$	$-6 - 9 =$	$-5 - 4 =$
$4 - -4 =$	$8 - -8 =$	$9 - -3 =$	$-7 - -8 =$	$8 - -1 =$	$-3 - 2 =$	$-4 - -3 =$
$8 - -8 =$	$8 - -4 =$	$-9 - 9 =$	$-7 - -5 =$	$-9 - 1 =$	$-8 - 6 =$	$-2 - -8 =$
$-5 - 6 =$	$-9 - -5 =$	$-2 - 2 =$	$6 - -1 =$	$-6 - -5 =$	$-8 - -9 =$	$7 - -4 =$
$-2 - 6 =$	$5 - -3 =$	$-9 - 4 =$	$8 - -2 =$	$2 - -7 =$	$-4 - 2 =$	$-3 - -6 =$
$-5 - -9 =$	$-2 - -5 =$	$6 - -3 =$	$-4 - 9 =$	$-5 - 8 =$	$-3 - 3 =$	$4 - -7 =$
$-6 - -6 =$	$-6 - -2 =$	$6 - -7 =$	$-2 - -9 =$	$-4 + -6 =$	$-2 - 4 =$	$-9 - 8 =$
$-4 - -8 =$	$3 - -4 =$	$-7 - -6 =$	$-8 - -3 =$	$-3 - -7 =$	$5 - -2 =$	$7 - -6 =$
$-3 - -5 =$	$-5 - -5 =$	$-9 - -7 =$	$7 - -9 =$	$-6 - -4 =$	$-6 - 8 =$	$-2 - -3 =$
$-2 - 7 =$	$-7 - 3 =$	$3 - -8 =$	$-9 - 2 =$	$3 - -9 =$	$-4 - -5 =$	$-9 - -4 =$

Integers: Multiplication Fluency C
(70 items)

Name_____ **Date**_____

$-3 \cdot -7 =$	$9 \cdot -2 =$	$6 \cdot -4 =$	$-7 \cdot 4 =$	$-4 \cdot -8 =$	$-6 \cdot 7 =$	$-4 \cdot -6 =$
$-5 \cdot 9 =$	$-7 \cdot -2 =$	$-6 \cdot -6 =$	$-9 \cdot -7 =$	$-7 \cdot 9 =$	$-3 \cdot -6 =$	$-3 \cdot 4 =$
$4 \cdot -9 =$	$5 \cdot -8 =$	$9 \cdot -6 =$	$2 \cdot -7 =$	$2 \cdot -4 =$	$-7 \cdot 6 =$	$-8 \cdot 1 =$
$2 \cdot -2 =$	$6 \cdot -9 =$	$5 \cdot -7 =$	$0 \cdot -9 =$	$-6 \cdot -4 =$	$8 \cdot -8 =$	$-7 \cdot -5 =$
$3 \cdot -2 =$	$-4 \cdot -3 =$	$-9 \cdot -4 =$	$5 \cdot -6 =$	$7 \cdot -3 =$	$-3 \cdot 8 =$	$-5 \cdot 2 =$
$-2 \cdot -5 =$	$-6 \cdot 3 =$	$4 \cdot -2 =$	$-8 \cdot 7 =$	$-5 \cdot -5 =$	$-3 \cdot -5 =$	$-4 \cdot 7 =$
$3 \cdot -3 =$	$-8 \cdot 2 =$	$-7 \cdot -1 =$	$-8 \cdot 2 =$	$-2 \cdot -4 =$	$-8 \cdot -3 =$	$2 \cdot -6 =$
$9 \cdot -8 =$	$-6 \cdot 1 =$	$-5 \cdot 3 =$	$-3 \cdot 9 =$	$-6 \cdot -5 =$	$-9 \cdot -5 =$	$-4 \cdot -5 =$
$-4 \cdot 4 =$	$-2 \cdot -8 =$	$9 \cdot -1 =$	$-8 \cdot 4 =$	$8 \cdot -5 =$	$6 \cdot -8 =$	$-7 \cdot 7 =$
$-2 \cdot -3 =$	$-9 \cdot 3 =$	$-7 \cdot -8 =$	$-4 \cdot 4 =$	$5 \cdot -4 =$	$8 \cdot -6 =$	$-6 \cdot -2 =$

Integers: Division Fluency C
(70 items)

Name_____ **Date**_____

$-32 \div 8 =$	$72 \div -9 =$	$-24 \div -6 =$	$-10 \div 2 =$	$-48 \div -6 =$	$16 \div -8 =$	$-28 \div 4 =$
$-48 \div 8 =$	$10 \div -5 =$	$-12 \div -3 =$	$-36 \div 9 =$	$-9 \div -9 =$	$-36 \div 9 =$	$-42 \div -7 =$
$12 \div -4 =$	$-81 \div -9 =$	$-9 \div 3 =$	$-24 \div -3 =$	$-30 \div 5 =$	$21 \div -7 =$	$-64 \div 8 =$
$-27 \div -9 =$	$-63 \div 9 =$	$-12 \div -6 =$	$-6 \div 2 =$	$-4 \div 2 =$	$-63 \div -7 =$	$-20 \div -4 =$
$54 \div -9 =$	$-5 \div 5 =$	$18 \div -3 =$	$20 \div -5 =$	$8 \div -8 =$	$-56 \div -8 =$	$-15 \div -5 =$
$8 \div -4 =$	$-6 \div -3 =$	$-40 \div 5 =$	$35 \div -7 =$	$18 \div -9 =$	$-18 \div -2 =$	$36 \div -4 =$
$36 \div -6 =$	$-12 \div 2 =$	$-48 \div 8 =$	$-72 \div -8 =$	$-25 \div -5 =$	$0 \div -6 =$	$-24 \div -8 =$
$-45 \div -5 =$	$-45 \div -9 =$	$-21 \div -3 =$	$-28 \div 7 =$	$-35 \div -5 =$	$6 \div -6 =$	$49 \div -7 =$
$-27 \div -9 =$	$15 \div -3 =$	$-14 \div 7 =$	$16 \div -2 =$	$-32 \div -4 =$	$56 \div -8 =$	$-15 \div -5 =$
$-7 \div -7 =$	$8 \div -2 =$	$-16 \div -4 =$	$-40 \div -8 =$	$-24 \div 4 =$	$56 \div -7 =$	$-18 \div 6 =$

Fraction/Decimal Conversion C
(70 items)

Name_____ **Date**_____

Directions: Convert fractions to decimals and decimals to fractions.

$\frac{1}{3}$ =	0.81 =	0.41 =	$\frac{41}{100}$ =	0.2 =	$\frac{3}{5}$ =	$\frac{73}{100}$ =	0.93 =	$\frac{3}{50}$ =	0.09 =
0.27 =	$\frac{13}{25}$ =	$\frac{32}{50}$ =	$\frac{7}{100}$ =	0.48 =	$\frac{7}{100}$ =	$\frac{12}{25}$ =	0.39 =	0.81 =	0.07 =
0.5 =	0.75 =	$\frac{1}{4}$ =	0.45 =	$\frac{1}{10}$ =	0.6 =	$\frac{3}{5}$ =	$\frac{69}{100}$ =	$\frac{1}{5}$ =	$\frac{3}{20}$ =
$\frac{1}{4}$ =	$\frac{11}{25}$ =	0.3 =	$\frac{7}{100}$ =	0.75 =	$\frac{63}{100}$ =	0.17 =	$\frac{13}{20}$ =	0.91 =	0.65 =
$\frac{3}{20}$ =	$\frac{23}{50}$ =	0.98 =	0.05 =	0.6 =	$\frac{1}{4}$ =	0.2 =	0.32 =	$\frac{7}{10}$ =	$\frac{9}{25}$ =
0.35 =	$\frac{19}{20}$ =	0.19 =	$\frac{2}{5}$ =	$\frac{1}{50}$ =	$\frac{1}{100}$ =	$\frac{3}{10}$ =	0.05 =	0.17 =	0.1 =
$\frac{4}{5}$ =	0.71 =	$\frac{1}{20}$ =	0.8 =	0.08 =	$\frac{1}{25}$ =	0.12 =	$\frac{71}{100}$ =	0.82 =	$\frac{1}{4}$ =