Grade 6   Unit 5   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	Write equations with independent and dependent variables	Write inequalities to represent mathematical problems.	Find solutions to inequalities.	Graph inequalities on a number line.	I will apply my knowledge of inequalities to graph real world situations of inequalities on a number line.
Assignment	Unit 5 Lesson 13 Re-Engage	Unit 5 Lessons 18-19 Re-Engage Extra Practice	Unit 5 Lesson 21 Re-Engage Extra Practice	Unit 5 Lesson 24 Re-Engage Extra Practice	Unit 5 Lesson 25 Homework
Video link	Unit 5 Lesson 13 English Spanish **Student Support Video**	Lesson 18: English Spanish Lesson 19: English Spanish **Student Support Video**	Unit 5 Lesson 21 English Spanish **Student Support Video**	Unit 5 Lesson 24 English Spanish **Student Support Video**	(no video for Math Tasks)
Fluency Practice	Division A Dividends within 100 (70 items)	Division B Dividends within 100 (70 items)	Mixed Multiplication & Division	Division A Dividends within 100 (70 items)	Division B Dividends within 100 (70 items)
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.

Model

Steps:	Toby drives an average speed of 60 mph on a trip from California to Arizona. How long will it take him to drive 240 miles?

1. Read and understand the problem.
2. Complete the table.
3. Write the equation to represent the table.
4. Determine the independent and dependent variables.
5. Solve the problem.

Time = t (in hours)	Miles Driven = d
1	60
2	120
3	180
4	

equation: $d = 60t$

independent variable: time (hours)

dependent variable: distance (miles)

solution: 4 hours

It will take Toby ___4___ hours.

Structured Guided Practice

Directions: Complete the table, write an equation to represent the table, determine which is the independent and dependent variable, and solve.

1. Julie is driving from Las Vegas to Long Beach at a constant speed of 70 mph. How long will it take her to drive 350 miles?

equation: _____

independent variable: _____

dependent variable: _____

solution: _____

Time = t (in hours)	Miles Driven = d
1	70

It will take Julie _____ hours.

2. Jesse is selling candy bars that come in a box of 8. Each candy bar costs $2.00. How much money will he make if he sells 4 boxes?

equation: _____

independent variable: _____

dependent variable: _____

solution: _____

Boxes Sold = b	Money Made = m
1	$16

Jesse will make $_____ .

Student Practice

Directions: Complete the table, write an equation to represent the table, determine which is the independent and dependent variable, and solve.

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1. Mr. Garcia drives at an average rate of 45 mph. How far will he travel in 5 hours?

equation: _____

independent variable: _____

dependent variable: _____

solution: _____

Time = t (in hours)	Miles Driven = d
1	45

Mr. Garcia will travel _____ miles.

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2. Karen is selling cookies that come 6 to a box. Each cookie costs $3.00. How much money will she make if she sells 4 boxes?

equation: _____

independent variable: _____

dependent variable: _____

solution: _____

Boxes Sold = b	Money Made = m
1	$18

Karen will make $_____ .

---

3. Chris jogged at a rate of 4 mph on a treadmill. How far did he jog in 4 hours?

equation: _____

independent variable: _____

dependent variable: _____

solution: _____

Time = t (in hours)	Miles Jogged = d
1	4

Chris will have jogged _____ miles.

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4. The football team is selling foam fingers. The team makes $15.00 profit on each box sold. How much money will the team make if they sell 6 boxes?

equation: _____

independent variable: _____

dependent variable: _____

solution: _____

Boxes Sold = b	Money Made = m
1	$15

The team will make $_____ .

Model

Steps:	9 is more than 3 times another number

Steps:

1. Identify the variable.
2. Look for key words.
3. Construct the inequality.

variable: **another number → n**

key words:

9 is more than (9 >)	3 times (3n)

inequality: **9 > 3n**

Structured Guided Practice

Directions: Write the inequality.

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1. 6 is greater than four plus a number.

variable: _____

key words:

inequality: _____

---

2. 24 is less than eight times another number.

variable: _____

key words:

inequality: _____

---

3. 18 is less than the sum of a number and 8.

variable: _____

key words:

inequality: _____

---

4. Two times a number is more than 16.

variable: _____

key words:

inequality: _____

Student Practice

Directions: Write the inequality.

1. 12 is greater than 18 minus a number.

variable: _____

key words: [ ] [ ]

inequality: _____

2. 3 times a number is less than 21.

variable: _____

key words: [ ] [ ]

inequality: _____

3. 4 increased by a number is less than 25.

variable: _____

key words: [ ] [ ]

inequality: _____

4. 27 decreased by a number is greater than 10.

variable: _____

key words: [ ] [ ]

inequality: _____

5. 16 plus a number is less than 28.

variable: _____

key words: [ ] [ ]

inequality: _____

6. 19 increased by a number is greater than 35.

variable: _____

key words: [ ] [ ]

inequality: _____

Directions: Write an inequality based on the given information.

1. 15 is less than 3 times another number.	2. A number decreased by 5 is more than 10.
3. The product of y and 24 is less than 32.	4. Four times a number increased by 7 is more than 30.

Directions: Write an inequality based on the given information.

5. 72 divided by a number is more than 23.	6. 15 less than a number is less than 9.
7. Eighteen is less than 2 times another number.	8. Fifty-three is more than 6 times another number.

Model

Steps:	Which values for x are a solution of the inequality?		
1. Substitute the given value for x.	$6 + x > 12$	$6 + 2 > 12$ $8 > 12$	**false** _____ true or false
2. Determine which inequality is true.	$x = 2, 8, 10$	$6 + 8 > 12$ $14 > 12$	**true** _____ true or false
		$6 + 10 > 12$ $16 > 12$	**true** _____ true or false

Structured Guided Practice

Directions: Determine which values are solutions to each inequality.

1. $7 + y > 12$ $y = 4, 5, 7$	$7 + 4 > 12$ _____ true or false $7 + 5 > 12$ _____ true or false $7 + 7 > 12$ _____ true or false	2. $10 - b > 5$ $b = 2, 3, 8$	$10 - 2 > 5$ _____ true or false $10 - 3 > 5$ _____ true or false $10 - 8 > 5$ _____ true or false
3. $m + 9 < 18$ $m = 4, 8, 10$	$4 + 9 < 18$ _____ true or false $8 + 9 < 18$ _____ true or false $10 + 9 < 18$ _____ true or false	4. $x - 7 < 10$ $x = 18, 19, 10$	$18 - 7 < 10$ _____ true or false $19 - 7 < 10$ _____ true or false $10 - 7 < 10$ _____ true or false

Student Practice

Directions: Determine which values are solutions to each inequality.

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1. $n + 8 > 15$

   $n = 6, 8, 10$

   $6 + 8 > 15$

   _____ true or false

   $8 + 8 > 15$

   _____ true or false

   $10 + 8 > 15$

   _____ true or false

---

2. $12 - t > 5$

   $t = 2, 8, 9$

   $12 - 2 > 5$

   _____ true or false

   $12 - 8 > 5$

   _____ true or false

   $12 - 9 > 5$

   _____ true or false

---

3. $y - 4 < 8$

   $y = 7, 8, 14$

   $7 - 4 < 8$

   _____ true or false

   $8 - 4 < 8$

   _____ true or false

   $14 - 4 < 8$

   _____ true or false

---

4. $r + 3 < 5$

   $r = 5, 4, 1$

   $5 + 3 < 5$

   _____ true or false

   $4 + 3 < 5$

   _____ true or false

   $1 + 3 < 5$

   _____ true or false

---

5. $6 + p < 17$

   $p = 9, 10, 11$

   $6 + 9 < 17$

   _____ true or false

   $6 + 10 < 17$

   _____ true or false

   $6 + 11 < 17$

   _____ true or false

---

6. $14 - q < 6$

   $q = 7, 8, 9$

   $14 - 7 < 6$

   _____ true or false

   $14 - 8 < 6$

   _____ true or false

   $14 - 9 < 6$

   _____ true or false

Directions: Determine the solution(s) that make the inequality true.

---

1. Which value(s) for r are solutions to the inequality?

$$12 + r > 19; \qquad r = 5, 7, 9$$

---

2. Which value(s) for x are solutions to the inequality?

$$3x > 21; \qquad x = 7, 8, 9$$

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3. Which value(s) for y are solutions to the inequality?

$$12 + y > 28; \qquad y = 10, 14, 16, 20$$

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4. Which value(s) for j are solutions to the inequality?

$$25 > j + 17; \qquad j = 6, 7, 8, 9$$

Directions: Determine the solution(s) that make the inequality true.

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5. Which value(s) for c are solutions to the inequality?

$$c - 5 > 9; \qquad c = 9, 10, 15$$

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6. Which value(s) for x are solutions to the inequality?

$$45 + x > 60; \qquad x = 10, 16, 20$$

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7. Which values for k are solutions to the inequality?

$$21 - k < 11; \qquad k = 11, 12, 13$$

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8. Each week, any class that earns more than 50 points for good cafeteria behavior gets a "front of the line pass" on pizza day. The table below lists the points for each of the sixth grade classes. Which classes will get the pass this week?

Class	Points
Room 23	49
Room 24	55
Room 32	64

Write the inequality statement.

Model

Ben spent less than $20 at the grocery store.
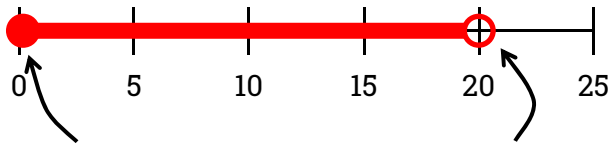
closed circle does include the value

open circle does not include the value

- This graph must include 0 because Ben can't spend negative money at the grocery store.

r > 15
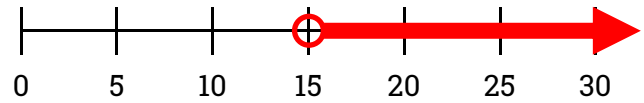
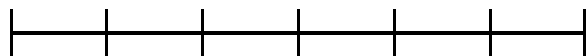- This graph includes all values greater than 15, and goes on infinitely.

Structured Guided Practice

Directions: Write and graph the inequality on a number line.

1. n > 10
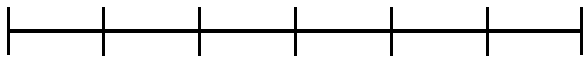
2. The tower is taller than 200 feet.

3. Dean is shorter than 6 feet.
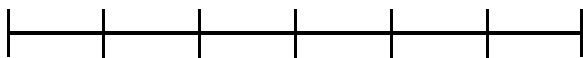
4. n < 6
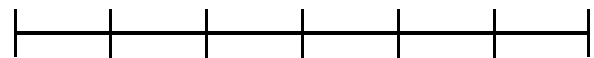
Student Practice

Directions: Write and graph the inequality on a number line.
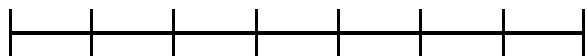
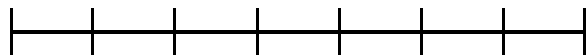|	
1. x > 16	2. q < 5
3. Rita reads less than 20 minutes every night.	4. The temperature outside is warmer than 40°.
5. The football game will be less than 3 hours long.	6. t > 12
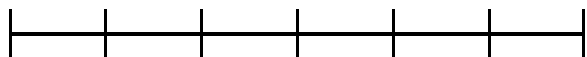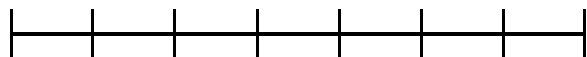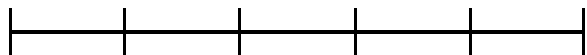
Directions: Graph the inequality on a number line.

1. $k < 2$

2. $h > 5$

3. $d > -3$

4. $p < 0$

Directions: Graph the inequality on a number line.

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5. A number is less than 4.5. Write the inequality and then graph it on a number line.

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6. Mark has more than $30,000 in his bank account. Write the inequality and then graph it on a number line.

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7. A number is more than $1\frac{1}{4}$. Write the inequality and then graph it on a number line.

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8. There are less than 50 gallons of water. Write the inequality and then graph it on a number line.

Directions: Write and graph an inequality for each situation.

1. In order to ride the rollercoaster, Extreme, you have to be taller than 46 inches.

2. Greg spent more than $50 at an amusement park.

   What are three possible amounts of money Greg could have spent?

3. The Johnson family spent less than $200 on groceries last month.

4. Lawrence is working to become a better golfer. He set a goal to hit the ball over 250 yds.

   Explain your number line.

Name_____ **Date**_____

6)36	9)54	8)72	5)35	7)35	7)7	2)10	9)81	5)25	6)36
4)20	2)6	4)8	2)2	5)45	6)42	7)28	9)63	6)48	6)12
5)10	9)18	2)8	8)64	2)12	3)12	6)54	9)72	2)16	7)49
8)8	7)21	3)27	6)18	1)8	2)6	4)24	5)15	2)14	9)9
3)24	4)32	6)6	9)45	6)30	8)32	7)14	4)36	7)63	4)12
5)20	8)24	4)16	3)18	5)40	2)18	8)16	7)42	3)12	8)48
6)42	5)45	2)2	4)8	2)6	4)20	6)12	6)48	9)63	7)28

Name_____ **Date**_____

$3\overline{)24}$	$4\overline{)32}$	$6\overline{)6}$	$9\overline{)45}$	$6\overline{)30}$	$8\overline{)32}$	$7\overline{)14}$	$4\overline{)36}$	$7\overline{)63}$	$4\overline{)12}$
$8\overline{)8}$	$7\overline{)21}$	$3\overline{)27}$	$6\overline{)18}$	$1\overline{)8}$	$2\overline{)6}$	$4\overline{)24}$	$5\overline{)15}$	$2\overline{)14}$	$9\overline{)9}$
$5\overline{)20}$	$8\overline{)24}$	$4\overline{)16}$	$3\overline{)18}$	$5\overline{)40}$	$2\overline{)18}$	$8\overline{)16}$	$7\overline{)42}$	$3\overline{)12}$	$8\overline{)48}$
$6\overline{)42}$	$5\overline{)45}$	$2\overline{)2}$	$4\overline{)8}$	$2\overline{)6}$	$4\overline{)20}$	$6\overline{)12}$	$6\overline{)48}$	$9\overline{)63}$	$7\overline{)28}$
$6\overline{)36}$	$9\overline{)54}$	$8\overline{)72}$	$5\overline{)35}$	$7\overline{)35}$	$7\overline{)7}$	$2\overline{)10}$	$9\overline{)81}$	$5\overline{)25}$	$6\overline{)36}$
$4\overline{)20}$	$2\overline{)6}$	$4\overline{)8}$	$2\overline{)2}$	$5\overline{)45}$	$6\overline{)42}$	$7\overline{)28}$	$9\overline{)63}$	$6\overline{)48}$	$6\overline{)12}$
$5\overline{)10}$	$9\overline{)18}$	$2\overline{)8}$	$8\overline{)64}$	$2\overline{)12}$	$3\overline{)12}$	$6\overline{)54}$	$9\overline{)72}$	$2\overline{)16}$	$7\overline{)49}$

Multiplication & Division Fluency Check (9s and below)

Directions: Solve. Find products and quotients from memory or apply strategies.

$5 \times 5 =$ _____ $45 \div 9 =$ _____ $9 \times 1 =$ _____

$36 \div 4 =$ _____ $3 \times 9 =$ _____ $5 \div 1 =$ _____

$4 \times 3 =$ _____ $8 \times 2 =$ _____ $72 \div 9 =$ _____

$8 \div 4 =$ _____ $48 \div 8 =$ _____ $9 \times 3 =$ _____

$36 \div 9 =$ _____ $6 \times 5 =$ _____ $6 \times 2 =$ _____

$3 \times 3 =$ _____ $42 \div 7 =$ _____ $72 \div 8 =$ _____

$2 \times 7 =$ _____ $5 \times 4 =$ _____ $9 \div 9 =$ _____

$45 \div 5 =$ _____ $3 \times 7 =$ _____ $54 \div 6 =$ _____

$56 \div 7 =$ _____ $9 \times 2 =$ _____ $7 \times 8 =$ _____

$8 \times 8 =$ _____ $49 \div 7 =$ _____ $18 \div 9 =$ _____

$36 \div 6 =$ _____ $7 \times 9 =$ _____ $20 \div 5 =$ _____

$6 \div 3 =$ _____ $9 \times 9 =$ _____ $4 \div 4 =$ _____

$9 \times 7 =$ _____ $24 \div 3 =$ _____ $2 \times 5 =$ _____

$54 \div 9 =$ _____

       Beyond the Basic Facts: Grades 3 and Above

Name_____ **Date**_____

6)36	9)54	8)72	5)35	7)35	7)7	2)10	9)81	5)25	6)36
4)20	2)6	4)8	2)2	5)45	6)42	7)28	9)63	6)48	6)12
5)10	9)18	2)8	8)64	2)12	3)12	6)54	9)72	2)16	7)49
8)8	7)21	3)27	6)18	1)8	2)6	4)24	5)15	2)14	9)9
3)24	4)32	6)6	9)45	6)30	8)32	7)14	4)36	7)63	4)12
5)20	8)24	4)16	3)18	5)40	2)18	8)16	7)42	3)12	8)48
6)42	5)45	2)2	4)8	2)6	4)20	6)12	6)48	9)63	7)28

Beyond the Basic Facts: Grades 3 and Above

Name_____ **Date**_____

3)24	4)32	6)6	9)45	6)30	8)32	7)14	4)36	7)63	4)12
8)8	7)21	3)27	6)18	1)8	2)6	4)24	5)15	2)14	9)9
5)20	8)24	4)16	3)18	5)40	2)18	8)16	7)42	3)12	8)48
6)42	5)45	2)2	4)8	2)6	4)20	6)12	6)48	9)63	7)28
6)36	9)54	8)72	5)35	7)35	7)7	2)10	9)81	5)25	6)36
4)20	2)6	4)8	2)2	5)45	6)42	7)28	9)63	6)48	6)12
5)10	9)18	2)8	8)64	2)12	3)12	6)54	9)72	2)16	7)49