WALDEN GREEN MONTESSORI

6th Year Math Task Cards

Unit 1 - The Number System (NS)

Directions:

1) Locate the assigned “Math Task Cards” from this unit
2) If needed, use a material or whiteboard to help you solve the problems
3) Record all answers in your “Math Task Journal”
4) When you have completed all 20 Task Cards, you may self-correct using the Answer Key
5) If you get a problem wrong, circle it with a highlighter or marker

16-20 CORRECT	11-15 CORRECT	0-10 CORRECT
EXCELLING	ACHIEVING	DEVELOPING
WOW - WAY TO GO!	YOU’RE GETTING CLOSE!	NOT YET - KEEP TRYING!

1

Divide to solve the problem.

$$\frac{7}{8} \div \frac{1}{4} =$$

6.NS.1

2

Divide to solve the problem.

$$\frac{1}{3} \div \frac{8}{9} =$$

6.NS.1

3

Divide to solve the problem.

$$\frac{1}{5} \div 1\frac{1}{2} =$$

6.NS.1

4

Divide to solve the problem.

$$1\frac{2}{3} \div \frac{5}{3} =$$

6.NS.1

5

Divide to solve the problem.

$$2 \div \frac{4}{9} =$$

6.NS.1

6

Divide to solve the problem.

$$\frac{7}{12} \div 5 =$$

6.NS.1

7

Divide to solve the problem.

$$4 \div \frac{3}{8} =$$

6.NS.1

8

Divide to solve the problem.

$$\frac{9}{5} \div 6 =$$

6.NS.1

9 Divide to solve the problem.

$$\frac{7}{6} \div \frac{3}{4} =$$

6.NS.1

10 Divide to solve the problem.

$$\frac{2}{5} \div \frac{8}{11} =$$

6.NS.1

11 Divide to solve the problem.

$$\frac{5}{9} \div 5\frac{1}{3} =$$

6.NS.1

12 Divide to solve the problem.

$$3\frac{1}{6} \div \frac{7}{8} =$$

6.NS.1

13

Draw a model to illustrate the problem.

$$1\frac{3}{4} \div \frac{1}{4} =$$

6.NS.1

14

Draw a model to illustrate the problem.

$$\frac{9}{8} \div \frac{3}{8} =$$

6.NS.1

15

Draw a model to illustrate the problem.

$$3\frac{1}{3} \div \frac{2}{3} =$$

6.NS.1

16

Draw a model to illustrate the problem.

$$\frac{12}{5} \div \frac{2}{5} =$$

6.NS.1

17

Frank used 3/2 cup of sugar to make a dozen brownies. How much sugar is in each brownie?

6.NS.1

18

Carol cut 3 shelves of equal length using a total of 1 ⅘ yards of wood. How long was each shelf?

6.NS.1

19

Alice studied for a total of 8 ¾ hours during the 5 days before her math test. If she studied for the same amount of time each day, how much time did she spend studying each day?

6.NS.1

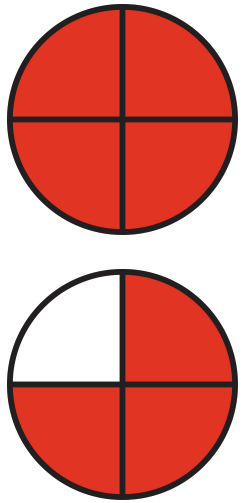
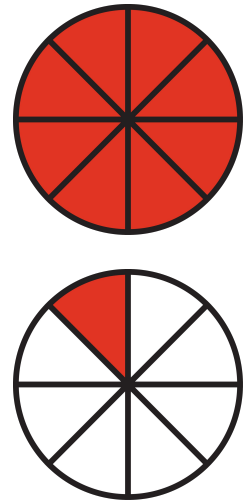
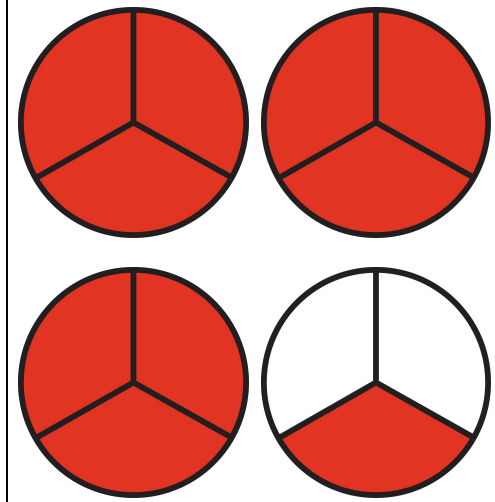
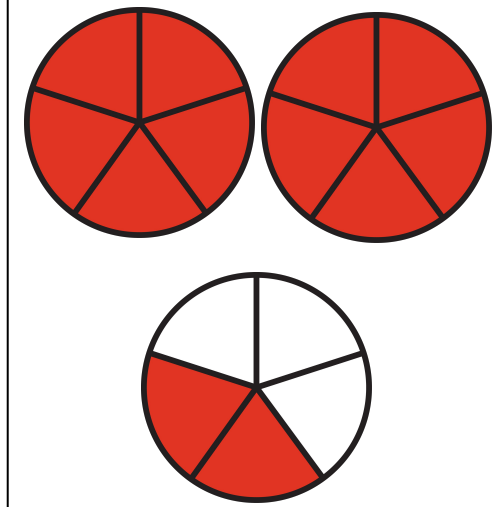
20

A cookie factory uses ⅞ of a bag of chocolate chips in each batch of cookies. The factory used 6 ⅛ bags of chocolate chips yesterday. How many batches of cookies did the factory make?

6.NS.1

6.NS.1 Task Cards

ANSWER KEY

1. 3 ½	2. 3/8	3. 2/15	4. 1
5. 4 ½	6. 7/60	7. 10 ⅔	8. 3/10
9. 1 5/9	10. 11/20	11. 5/48	12. 3 13/21
13. 7 	14. 3 	15. 5 	16. 6 
17. ⅛ cup	18. ⅜ of a yard	19. 1 ¾ hours	20. 7 batches

1

Divide to solve the problem.

$$73{,}378 \div 29 =$$

6.NS.2

2

Divide to solve the problem.

$$873 \div 65 =$$

6.NS.2

3

Divide to solve the problem.

$$14{,}337 \div 27 =$$

6.NS.2

4

Divide to solve the problem.

$$34{,}532 \div 356 =$$

6.NS.2

5

Divide to solve the problem.

$15\overline{)1,335}$

6.NS.2

6

Divide to solve the problem.

$17\overline{)35,825}$

6.NS.2

7

Divide to solve the problem.

$73\overline{)41,683}$

6.NS.2

8

Divide to solve the problem.

$31\overline{)320}$

6.NS.2

9

Divide to solve the problem.

$$7{,}801 \div 63 =$$

6.NS.2

10

Divide to solve the problem.

$$676 \div 52 =$$

6.NS.2

11

Divide to solve the problem.

$$13{,}413 \div 17 =$$

6.NS.2

12

Divide to solve the problem.

$$10{,}945 \div 49 =$$

6.NS.2

13 Divide to solve the problem.

$45\overline{)3{,}285}$

6.NS.2

14 Divide to solve the problem.

$18\overline{)62{,}022}$

6.NS.2

15 Divide to solve the problem.

$39\overline{)51{,}234}$

6.NS.2

16 Divide to solve the problem.

$36\overline{)972}$

6.NS.2

17

A builder needs 18,464 nails to build a new shed. If the nails come in packages of 32, how many packages should the builder purchase?

6.NS.2

18

There are 19,135 books at the local library. If each shelf holds 89 books, how many shelves does the library have?

6.NS.2

19

Farmer Sam needs to ship 15,494 pumpkins. If each crate can hold 17 pumpkins, how many full crates of pumpkins will Sam get? How many pumpkins will be leftover?

6.NS.2

20

The high school cafeteria wants to buy 5,656 plastic forks. If each package contains 28 forks, how many packages should the cafeteria buy?

6.NS.2

6.NS.2 Task Cards

Decimal solutions rounded to nearest hundredth.

ANSWER KEY

1. 2,530 R 8 2,530.28	2. 13 R 28 13.43	3. 531	4. 97
5. 89	6. 2,107 R 6 2,107.35	7. 571	8. 10 R 10 10.32
9. 123 R 52 123.83	10. 13	11. 789	12. 223 R 18 223.37
13. 73	14. 3,445 R 12 3,445.67	15. 1,313 R 27 1,313.69	16. 27
17. 577 packages	18. 215 shelves	19. 911 full crates; 7 leftover	20. 202 packages

1

Solve.

635.96 + 25.38 =

6.NS.3

2

Solve.

4,764.65 - 896.7 =

6.NS.3

3

Solve.

19.73 × 5.28 =

6.NS.3

4

Solve.

1,464.9 ÷ 28.5 =

6.NS.3

5 Solve.

$$\begin{array}{r} 23.927 \\ +\ 79.976 \\ \hline \end{array}$$

6.NS.3

6 Solve.

$$\begin{array}{r} 53.241 \\ -\ 39.694 \\ \hline \end{array}$$

6.NS.3

7 Solve.

$$\begin{array}{r} 96.820 \\ \times\ \ 85.4 \\ \hline \end{array}$$

6.NS.3

8 Solve.

$$4.6\overline{)33.58}$$

6.NS.3

9

Solve.

$285.196 \div 14.8 =$

6.NS.3

10

Solve.

$59.7 \times 4.26 =$

6.NS.3

11

Solve.

$684.15 + 92.3 =$

6.NS.3

12

Solve.

$90.1 - 37.445 =$

6.NS.3

13

Solve.

$$\begin{array}{r} 17.625 \\ \times\ 43.08 \\ \hline \end{array}$$

6.NS.3

14

Solve.

$$\begin{array}{r} 862.24 \\ +\ 197.93 \\ \hline \end{array}$$

6.NS.3

15

Solve.

$$5.7\overline{)20.634}$$

6.NS.3

16

Solve.

$$\begin{array}{r} 31.67 \\ -\ 15.982 \\ \hline \end{array}$$

6.NS.3

17

Uncle Wayne weighs 203.5 pounds, and Aunt Betsy weighs 164.79 pounds. How much more does Uncle Wayne weigh than Aunt Betsy?

6.NS.3

18

The P.E. class has 23 jump ropes. If each jump rope is 1.524 meters long, how long are the jump ropes altogether?

6.NS.3

19

Jamie bought 6 rolls of paper towels. Altogether, she has 445.5 feet of paper towels. How many feet of paper towels are on each roll?

6.NS.3

20

George bought 4.382 pounds of licorice and 5.14 pounds of jelly beans. How many pounds of candy did George buy?

6.NS.3

6.NS.3 Task Cards

ANSWER KEY

1. **661.34**	2. **3,867.95**	3. **104.1744**	4. **51.4**
5. **103.903**	6. **13.547**	7. **182.22**	8. **7.3**
9. **19.27**	10. **254.322**	11. **776.45**	12. **52.655**
13. **759.285**	14. **1,060.17**	15. **3.62**	16. **15.688**
17. **38.71 pounds**	18. **35.052 meters**	19. **74.25 feet**	20. **9.522 pounds**

1

Find the greatest common factor of 12 and 16.

6.NS.4

2

Find the greatest common factor of 15 and 24.

6.NS.4

3

Find the least common multiple of 3 and 5.

6.NS.4

4

Find the least common multiple of 9 and 12.

6.NS.4

5

Find the greatest common factor of 20 and 30.

6.NS.4

6

Find the greatest common factor of 18 and 42.

6.NS.4

7

Find the least common multiple of 6 and 8.

6.NS.4

8

Find the least common multiple of 2 and 7.

6.NS.4

9

Find the greatest common factor of 4 and 30.

6.NS.4

10

Find the greatest common factor of 35 and 56.

6.NS.4

11

Find the least common multiple of 9 and 11.

6.NS.4

12

Find the least common multiple of 6 and 9.

6.NS.4

13

Fill in the blank to make the equations true.

Hint: Apply the distributive property to solve this without calculating.

$$14 + 22 = 2 \times (7 + __)$$

6.NS.4

14

Fill in the blank to make the equations true.

Hint: Apply the distributive property to solve this without calculating.

$$21 + 18 = __ \times (7 + 6)$$

6.NS.4

15

Fill in the blank to make the equations true.

Hint: Apply the distributive property to solve this without calculating.

$$12 \times (3 + 1) = 36 + __$$

6.NS.4

16

Fill in the blank to make the equations true.

Hint: Apply the distributive property to solve this without calculating.

$$4 \times (5 + __) = 20 + 44$$

6.NS.4

17

Fill in the blank to make the equations true.

Hint: Apply the distributive property to solve this without calculating.

$$__ + 30 = 3 \times (7 + 10)$$

6.NS.4

18

Fill in the blank to make the equations true.

Hint: Apply the distributive property to solve this without calculating.

$$22 + 24 = 2 \times (11 + __)$$

6.NS.4

19

Fill in the blank to make the equations true.

Hint: Apply the distributive property to solve this without calculating.

$$5 \times (3 + __) = 15 + 45$$

6.NS.4

20

Fill in the blank to make the equations true.

Hint: Apply the distributive property to solve this without calculating.

$$__ \times (4 + 7) = 28 + 49$$

6.NS.4

6.NS.4 Task Cards

ANSWER KEY

1. **4**	2. **3**	3. **15**	4. **36**
5. **10**	6. **6**	7. **24**	8. **14**
9. **2**	10. **7**	11. **99**	12. **18**
13. **11**	14. **3**	15. **12**	16. **11**
17. **21**	18. **12**	19. **9**	20. **7**

1

The high for Sunday was 0°F and the low was -4°F. What is the difference between the high and low temperature?

6.NS.5

2

The temperature right now is -3°F, and the forecasted high temperature is 2°F. How many degrees will it have to warm to reach 2°F?

6.NS.5

3

The high for Friday was 1°F and the low was -1°F. What is the difference between the high and low temperature?

6.NS.5

4

The temperature right now is -2°F, and the forecasted high temperature is 2°F. How many degrees will it have to warm to reach 2°F?

6.NS.5

5

Which integer represents this scenario?

an elevator goes down 3 floors

a) -3 b) 3

6.NS.5

6

Which integer represents this scenario?

5 degrees above zero

a) -5° b) 5°

6.NS.5

7

Which integer represents this scenario?

4 more inches of snow this winter than last winter

a) -4” b) 4”

6.NS.5

8

Which integer represents this scenario?

$7 discount

a) -$7 b) $7

6.NS.5

9

The lowest airport in the world is Atyrau Airport in Kazakhstan at 72 feet below sea level. How would we represent this elevation using negative numbers?

6.NS.5

10

Water freezes at 0°C. Give two examples of two temperatures at which ice could exist.

6.NS.5

11

Wilbert bought a new dirt bike and is now $229 in debt. How much money does Wilbert have?

What does $0 represent in this problem?

6.NS.5

12

Cathy has −$32.16 in her bank account. How much money does Cathy have?

What does $0 represent in this problem?

6.NS.5

13

Oliver wants to buy a bag of chips for $2, but his bank account only contains $1. If Oliver purchases the chips, how much money will his bank account show?

6.NS.5

14

Ann wants to buy a pack of gum for $1, but her bank account contains $0. If Ann purchases the gum, how much money will her bank account show?

6.NS.5

15

Lisa wants to buy a gallon of milk for $4, but her bank account only contains $1. If Lisa purchases the milk, how much money will her bank account show?

6.NS.5

16

Steven wants to buy a pack of markers for $3, but his bank account only contains $1. If Steven purchases the markers, how much money will his bank account show?

6.NS.5

17

The record low temperature in Tennessee is 32°F below zero. Write this temperature using a negative sign.

6.NS.5

18

The record low temperature in Louisiana is -16°F. How many degrees below 0 is this?

6.NS.5

19

The record low temperature in Maryland is -40°F. How many degrees below 0 is this?

6.NS.5

20

The record low temperature in South Carolina is 22°F below zero. Write this temperature using a negative sign.

6.NS.5

6.NS.5 Task Cards

ANSWER KEY

1. **4°F**	2. **5°F**	3. **2°F**	4. **4°F**
5. **A**	6. **B**	7. **B**	8. **A**
9. **-72 feet**	10. **Answers will vary. Examples: -12°C; -43°C**	11. **-$229 $0 would represent Wilbert having paid off his debt.**	12. **−$32.16 $0 would represent Cathy not owing the bank any money.**
13. **-$1**	14. **-$1**	15. **-$3**	16. **-$2**
17. **-32°F**	18. **16**	19. **40**	20. **-22°F**

1

What's the opposite of 2?

6.NS.6

2

What's the opposite of -8?

6.NS.6

3

What's the opposite of 13?

6.NS.6

4

What's the opposite of -27?

6.NS.6

5

What's the opposite of the opposite of 5?

6.NS.6

6

What's the opposite of the opposite of -12?

6.NS.6

7

Solve: -(-4) =

6.NS.6

8

What's the opposite of 0?

6.NS.6

9

If the point (-4, 7) is reflected across the x-axis, what are the coordinates of the new point?

6.NS.6

10

If the point (-4, 7) is reflected across the y-axis, what are the coordinates of the new point?

6.NS.6

11

If the point (-6, -2) is reflected across the x-axis, what are the coordinates of the new point?

6.NS.6

12

If the point (-6, -2) is reflected across the y-axis, what are the coordinates of the new point?

6.NS.6

13

In which quadrant of the coordinate plane will you find the point (7, -3)?

6.NS.6

14

In which quadrant of the coordinate plane will you find the point (-9, -1)?

6.NS.6

15

In which quadrant of the coordinate plane will you find the point (6, 4)?

6.NS.6

16

In which quadrant of the coordinate plane will you find the point (-5, 8)?

6.NS.6

17

Mark the location of each point on the number line.

A) -1.5 B) ¾

6.NS.6

18

Mark the location of each point on the number line.

C) -2 ¼ D) 0.2

6.NS.6

19

Mark the location of each point on the number line.

E) 1 ⅔ F) -0.25

6.NS.6

20

Mark the location of each point on the number line.

G) -2.9 H) 2 ⅞

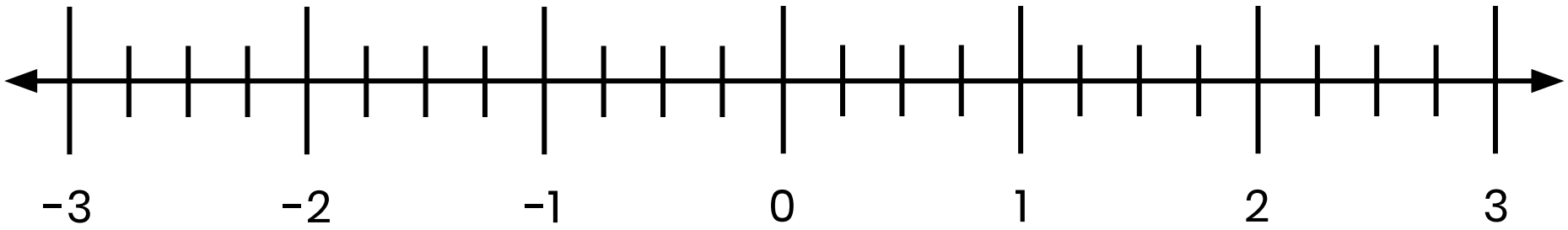
6.NS.6

6.NS.6 Task Cards

Name: _____

1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.

17-20.

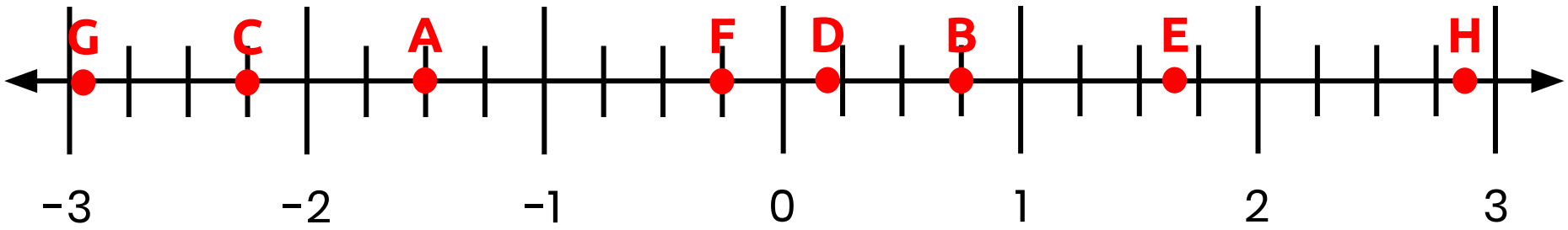


6.NS.6 Task Cards

ANSWER KEY

1. **-2**	2. **8**	3. **-13**	4. **27**
5. **5**	6. **-12**	7. **4**	8. **0** (-0 is technically not wrong, just not very succinct)
9. **(-4, -7)**	10. **(4, 7)**	11. **(-6, 2)**	12. **(6, -2)**
13. **4**	14. **3**	15. **1**	16. **2**

17-20.



1 Solve the problem using >, <, or =.

-43 ◯ -40

6.NS.7

2 Solve the problem using >, <, or =.

2 ◯ -9

6.NS.7

3 Solve the problem using >, <, or =.

-18 ◯ -17

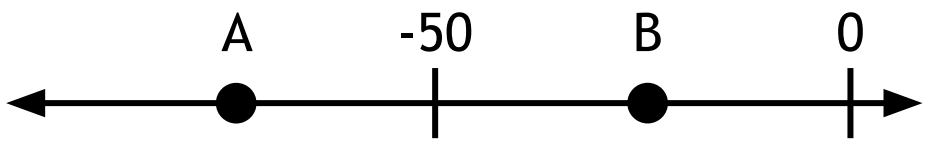
6.NS.7

4 Solve the problem using >, <, or =.

-35 ◯ 35

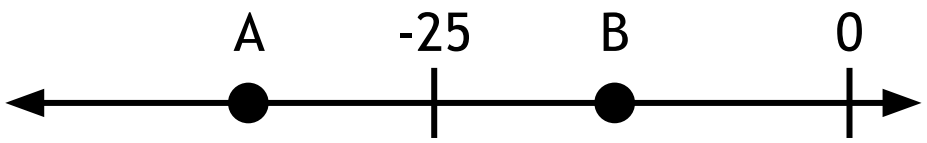
6.NS.7

5 Which letter best shows -74?



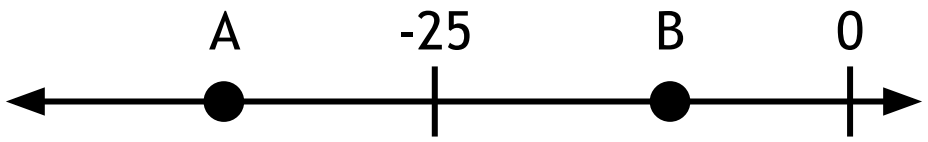
6.NS.7

6 Which letter best shows -15?



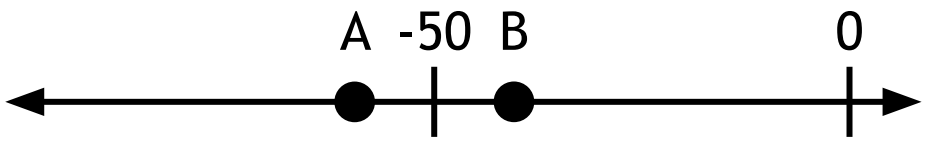
6.NS.7

7 Which letter best shows -37?



6.NS.7

8 Which letter best shows -40?



6.NS.7

9

At the end of a board game, Phil has -5 points and Roy has -2 points. Write their scores as a comparison, using >, <, or =.

6.NS.7

10

New York City's lowest temperature is -15°F and Philadelphia's lowest temperature is -11°F. Write the temperatures as a comparison, using >, <, or =.

6.NS.7

11

At the end of a board game, Janet has -7 points and Lillian has -13 points. Write their scores as a comparison, using >, <, or =.

6.NS.7

12

Detroit's lowest temperature is -21°F and Phoenix's lowest temperature is 17°F. Write the temperatures as a comparison, using >, <, or =.

6.NS.7

13

Determine the value.

$|16|$

6.NS.7

14

Determine the value.

$|-37|$

6.NS.7

15

Determine the value.

$-|41|$

6.NS.7

16

Determine the value.

$|-5|$

6.NS.7

17 Solve the problem using >, <, or =.

$$|-17| \bigcirc 21$$

6.NS.7

18 Solve the problem using >, <, or =.

$$|6| \bigcirc |-6|$$

6.NS.7

19 Solve the problem using >, <, or =.

$$|-4| \bigcirc -|3|$$

6.NS.7

20 Solve the problem using >, <, or =.

$$-|14| \bigcirc -|12|$$

6.NS.7

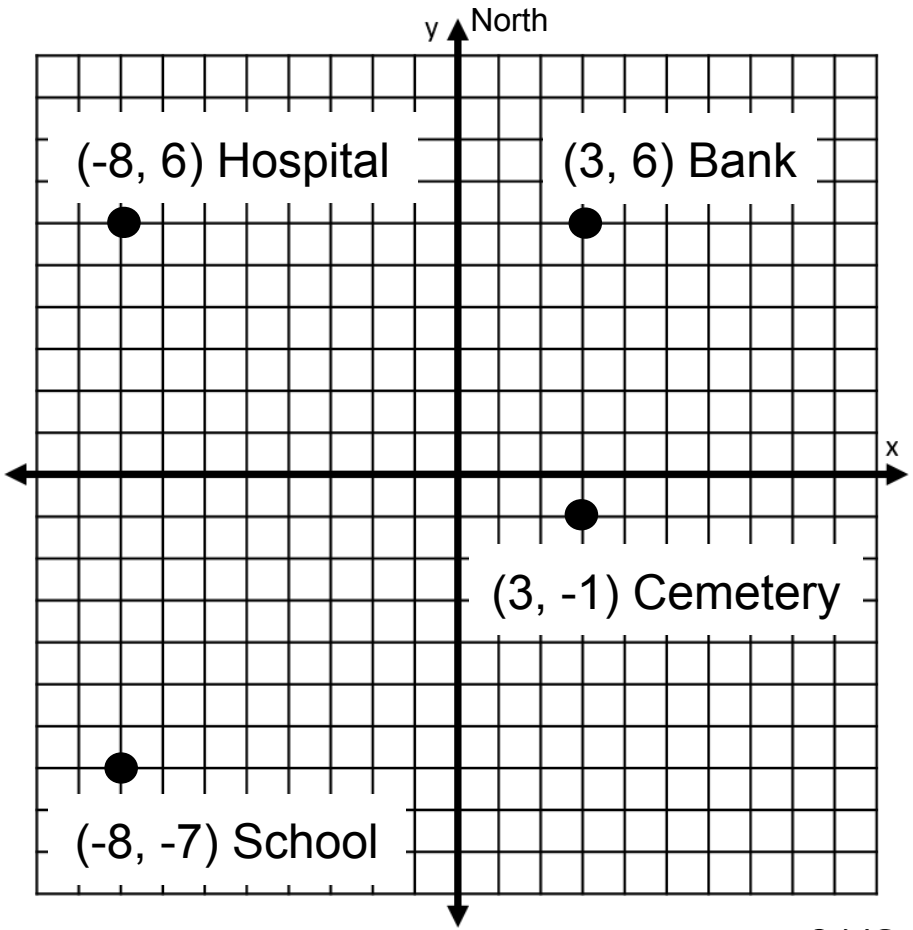
6.NS.7 Task Cards

ANSWER KEY

1. **<**	2. **>**	3. **<**	4. **<**
5. **A**	6. **B**	7. **A**	8. **B**
9. **-5 < -2**	10. **-15 < -11**	11. **-7 > -13**	12. **-21 < 17**
13. **16**	14. **37**	15. **-41**	16. **5**
17. **<**	18. **=**	19. **>**	20. **>**

Use the map of Squaresville to answer questions 1-8. Each unit represents one mile.

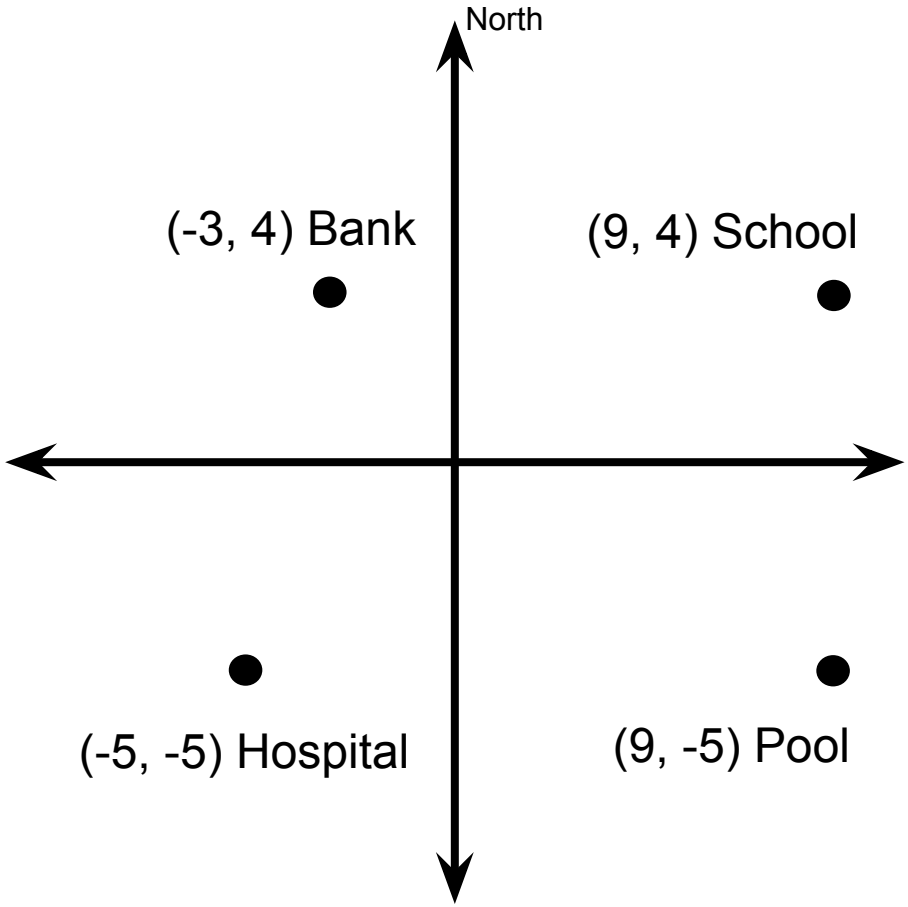
Squaresville



6.NS.8

Use the map of Madison to answer questions 9-16. Each unit represents one mile.

Madison



6.NS.8

1

Use the map of Squaresville to answer the question.

How many miles is the hospital from the bank?

6.NS.8

2

Use the map of Squaresville to answer the question.

How many miles is the hospital from the school?

6.NS.8

3

Use the map of Squaresville to answer the question.

How many miles is the bank from the cemetery?

6.NS.8

4

Use the map of Squaresville to answer the question.

The cemetery is ___ miles South and ___ miles East of the hospital.

6.NS.8

5

Use the map of Squaresville to answer the question.

The cemetery is ___ miles North and ___ miles East of the school.

6.NS.8

6

Use the map of Squaresville to answer the question.

The bank is ___ miles North and ___ miles East of the school.

6.NS.8

7

Use the map of Squaresville to answer the question.

If the courthouse is located 9 miles South and 5 miles West of the bank, what are the coordinates of the courthouse?

6.NS.8

8

Use the map of Squaresville to answer the question.

If the city pool is located 3 miles South and 4 miles East of the hospital, what are the coordinates of the city pool?

6.NS.8

9

Use the map of Madison to answer the question.

How many miles is the hospital from the pool?

6.NS.8

10

Use the map of Madison to answer the question.

How many miles is the pool from the school?

6.NS.8

11

Use the map of Madison to answer the question.

How many miles is the school from the bank?

6.NS.8

12

Use the map of Madison to answer the question.

The hospital is ___ miles South and ___ miles West of the bank.

6.NS.8

13

Use the map of Madison to answer the question.

The school is ___ miles North and ___ miles East of the hospital.

6.NS.8

14

Use the map of Madison to answer the question.

The bank is ___ miles North and ___ miles West of the pool.

6.NS.8

15

Use the map of Madison to answer the question.

If the courthouse is located 6 miles South and 6 miles West of the school, what are the coordinates of the courthouse?

6.NS.8

16

Use the map of Madison to answer the question.

If the library is located 3 miles South and 5 miles East of the hospital, what are the coordinates of the library?

6.NS.8

17

An oil company drilled wells A, B, and C.

Plot and label well A:
A=(3,-5)

6.NS.8

18

An oil company drilled wells A, B, and C.

Plot and label well B:
B=(-7,9)

6.NS.8

19

An oil company drilled wells A, B, and C.

Plot and label well C:
C=(-7,-4)

6.NS.8

20

An oil company drilled wells A, B, and C.

If each unit is one mile, how far is well B from well C?

6.NS.8

6.NS.8 Task Cards

Name: _____

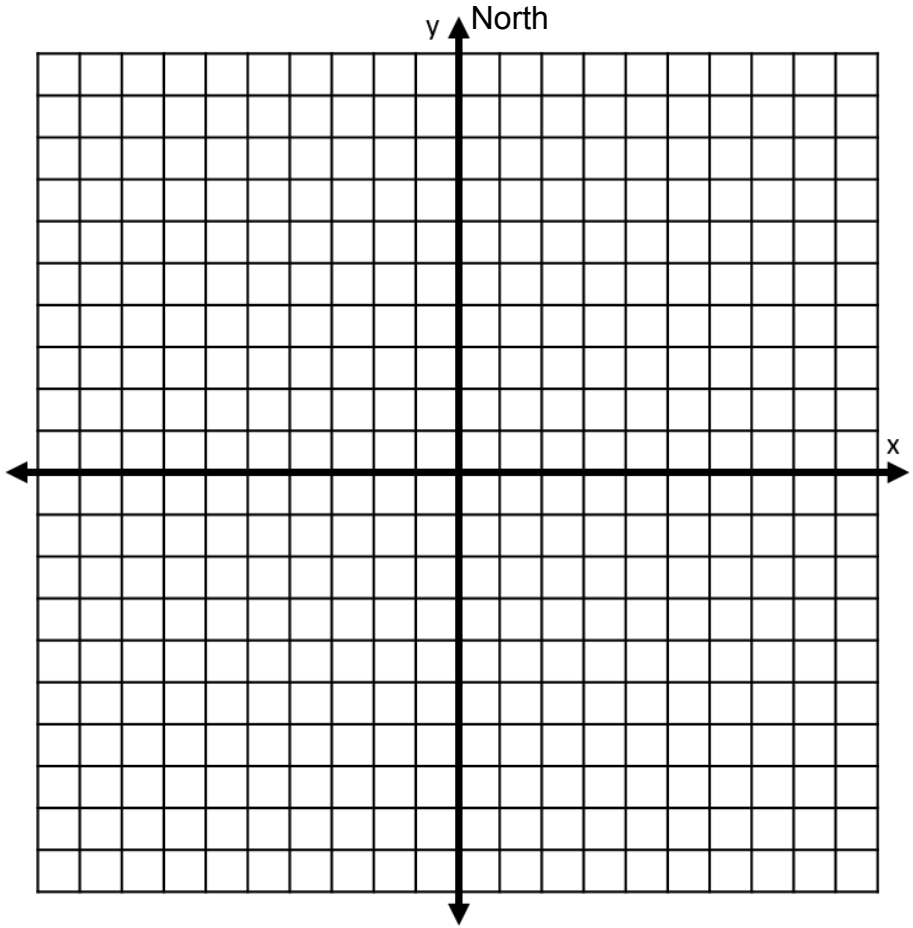
1.	2.	3.	4. The cemetery is ___ miles South and ___ miles East of the hospital.
5. The cemetery is ___ miles North and ___ miles East of the school.	6. The bank is ___ miles North and ___ miles East of the school.	7.	8.
9.	10.	11.	12. The hospital is ___ miles South and ___ miles West of the bank.
13. The school is ___ miles North and ___ miles East of the hospital.	14. The bank is ___ miles North and ___ miles West of the pool.	15.	16.

6.NS.8 Task Cards

Name: _____

Use coordinate graph to answer questions 17 - 20.

20. _____ miles



6.NS.8 Task Cards

ANSWER KEY

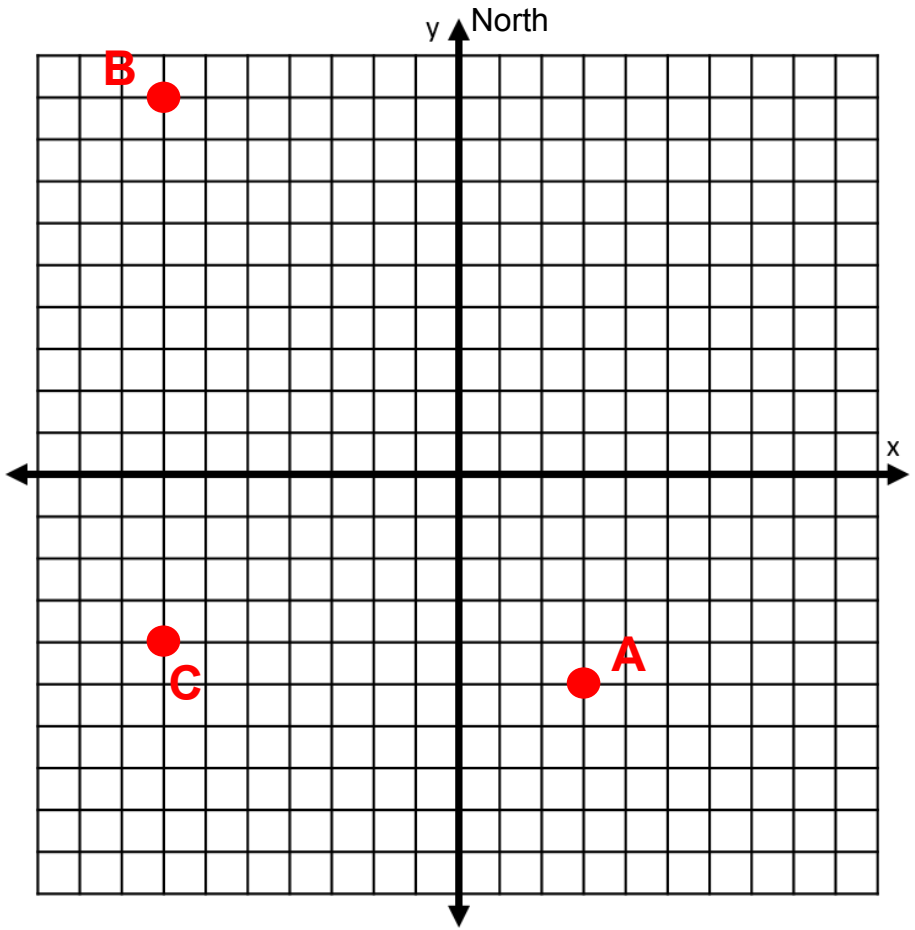
1. **11 miles**	2. **13 miles**	3. **7 miles**	4. The cemetery is **7** miles South and **11** miles East of the hospital.
5. The cemetery is **6** miles North and **11** miles East of the school.	6. The bank is **13** miles North and **11** miles East of the school.	7. **(-2, -3)**	8. **(-4, 3)**
9. **14 miles**	10. **9 miles**	11. **12 miles**	12. The hospital is **9** miles South and **2** miles West of the bank.
13. The school is **9** miles North and **14** miles East of the hospital.	14. The bank is **9** miles North and **12** miles West of the pool.	15. **(3, -2)**	16. **(-10, -8)**

6.NS.8 Task Cards

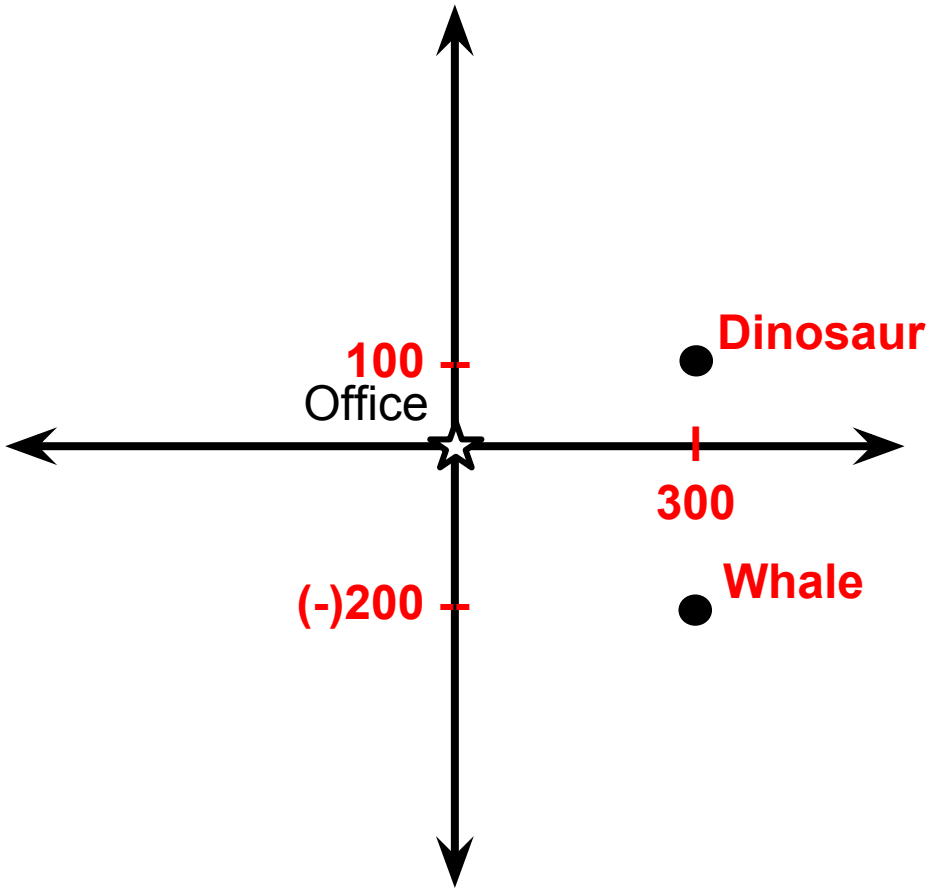
ANSWER KEY

Use coordinate graph to answer questions 17 - 20.

20. _____13_____ miles



Use coordinate graph to answer questions 21 - 23.



23. _____300_____ miles

24. _____200_____ miles