WALDEN GREEN MONTESSORI

6th Year Math Task Cards

Unit 2 - Ratios & Proportional Relationships (RP)

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!

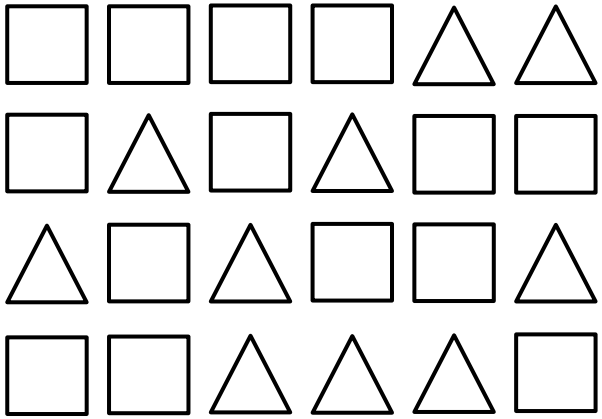
1

What is the ratio of stars to circles?

6.RP.1

2

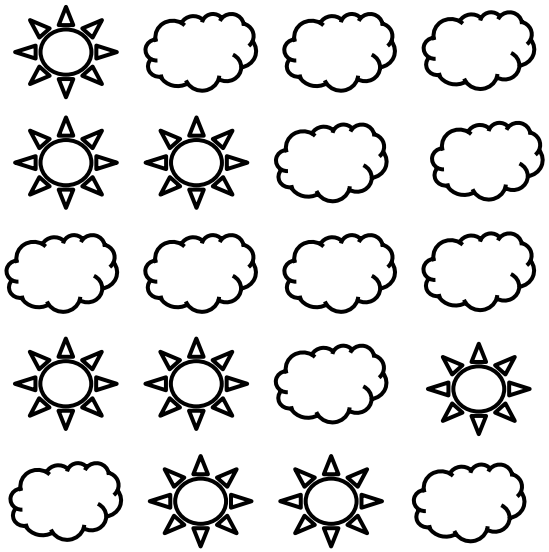
What is the ratio of squares to triangles?



6.RP.1

3

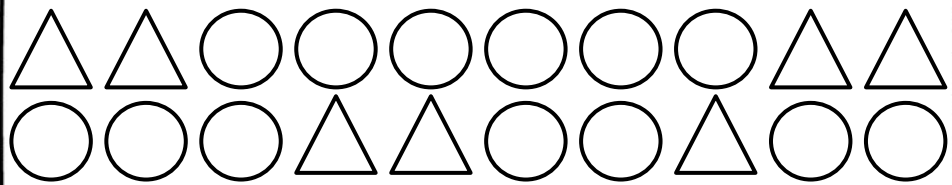
What is the ratio of clouds to suns?



6.RP.1

4

What is the ratio of circles to triangles?



6.RP.1

5

Circle which statements are true.

cookies sold = 6 sodas sold = 7

A. For every 7 cookies sold there are 6 sodas sold.
B. The ratio of cookies to sodas sold is 7:6.
C. For every 6 cookies sold there are 7 sodas sold.
D. The ratio of cookies to sodas sold is 6:7.

6.RP.1

6

Circle which statements are true.

pizza slices = 2 pepperonis = 9

A. For every 2 pizza slices there are 9 pepperonis.
B. The ratio of pizza slices to pepperonis is 9:2.
C. For every 9 pizza slices there are 2 pepperonis.
D. The ratio of pizza slices to pepperonis is 2:9.

6.RP.1

7

Circle which statements are true.

pencils = 11 erasers = 4

A. The ratio of erasers to pencils is 11:4.
B. For every 11 pencils there are 4 erasers.
C. The ratio of pencils to erasers is 11:4.
D. For every 11 erasers there are 4 pencils.

6.RP.1

8

Circle which statements are true.

dogs = 3 cats = 6

A. For every 6 dogs there are 3 cats.
B. The ratio of dogs to cats is 3:6.
C. The ratio or dogs to cats is 6:3.
D. For every 3 dogs there are 6 cats.

6.RP.1

9

The ratio of legs to tails in the zebra pen was 4:1 because for every _____ legs there was _____ tail.

6.RP.1

10

The ratio of ears to toes in the classroom was 2:10 because for every _____ ears there were _____ toes.

6.RP.1

11

The ratio of rabbits to hamsters in the pet store was 5:8 because for every _____ rabbits there were _____ hamsters.

6.RP.1

12

The ratio of crayons to markers in Laura's backpack was 18:15 because for every _____ crayons there were _____ markers.

6.RP.1

13

There are 17 men and 14 women running a race. What is the ratio of the number of female runners to the number of male runners?

6.RP.1

14

Of the students in Mr. Todd's class, 23 students play sports and the other 5 students do not. What is the ratio of the number of students who play sports to the number of students who do not play sports?

6.RP.1

15

There are 21 yellow stamps and 29 blue stamps in Lisa's stamp collection. What is the ratio of the number of yellow stamps to the number of blue stamps?

6.RP.1

16

A donut shop made 16 donuts with frosting and 19 donuts without frosting. What is the ratio of the number of donuts with frosting to the number of donuts without frosting?

6.RP.1

17

Draw a picture showing the ratio
3 stars to 2 squares.

6.RP.1

18

Draw a picture showing the ratio
4 circles to 7 triangles.

6.RP.1

19

Draw a picture showing the ratio
1 heart to 5 rectangles.

6.RP.1

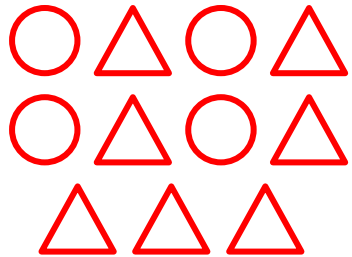
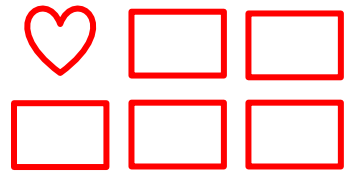
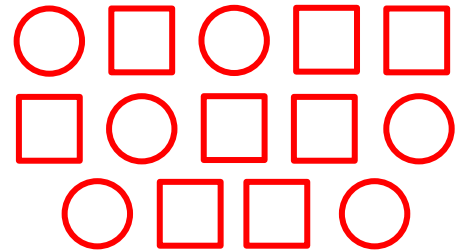
20

Draw a picture showing the ratio
8 squares to 6 circles.

6.RP.1

6.RP.1 Task Cards

ANSWER KEY

1. **5:10**	2. **14:10**	3. **12:8**	4. **13:7**
5. **C & D**	6. **A & D**	7. **B & C**	8. **B & D**
9. **4 legs; 1 tail**	10. **2 ears; 10 toes**	11. **5 rabbits; 8 hamsters**	12. **18 crayons; 15 markers**
13. **14:17**	14. **23:5**	15. **21:29**	16. **16:19**
17. **Answers may vary slightly.**	18. **Answers may vary slightly.** 	19. **Answers may vary slightly.** 	20. **Answers may vary slightly.** 

1

James earned a total of $18 by selling 9 cups of lemonade. How many cups of lemonade does James need to sell in all to earn $26?

6.RP.2

2

Andrew bikes 16 miles in 2 hours. How many miles does Andrew bike in 1 hour?

6.RP.2

3

Nicole took a total of 12 tests over the course of 3 weeks. After attending 8 weeks of school this quarter, how many tests will Nicole have taken?

6.RP.2

4

A baker made 42 pastries in 3 ½ hours. How many pastries did the baker make in one hour?

6.RP.2

5

Lance earned $27 for mowing 3 lawns. What is the rate earned per lawn mowed?

6.RP.2

6

Mia's office recycled a total of 9 pounds of paper over 3 weeks. After 7 weeks, how many pounds of paper will Mia's office have recycled?

6.RP.2

7

Dave’s Doughnuts sells a dozen doughnuts for $5.40. What is the unit cost per doughnut?

6.RP.2

8

Beth took a total of 6 pages of notes during 4 hours of class. In all, how many hours will Beth have to spend in class before she will have a total of 18 pages of notes in her notebook?

6.RP.2

9

John paid $67.50 for 9 pizzas, which is a rate of $____ per pizza.

6.RP.2

10

Zoey knit a total of 24 centimeters of a scarf over 3 nights. How many nights will Zoey have to spend knitting in order to knit a total of 40 centimeters of the scarf?

6.RP.2

11

A baker used 4 cups of flour to make 5 batches of cookies. He used ____ of a cup of flour to make 1 batch of cookies.

6.RP.2

12

Amber made 15 pies after working 3 hours. How many pies did Amber prepare if she worked for 4 hours?

6.RP.2

13

Heather grew 21 plants with 3 seed packets. If Heather uses 7 seed packets, how many total plants can Heather grow?

6.RP.2

14

A seamstress used 4 meters of ribbon to make 20 bows. She used _____ of a meter for each bow.

6.RP.2

15

Erica prepared 13 flower arrangements after working 2 hours. How many hours did Erica work if she prepared 26 flower arrangements?

6.RP.2

16

Your local grocery store is having a special on soda. They're selling a 12-pack of 12 oz. cans for $4.50. The 20 oz. bottles are also on sale for $0.75. Should you buy one 12-pack of 12 oz. cans or seven 20 oz. bottles?

6.RP.2

17

Bonnie bought 16 postcards during 4 days of vacation. If she buys postcards at the same rate, after 6 days of vacation, how many total postcards will Bonnie have bought?

6.RP.2

18

Amy is buying chips at the grocery store. She needs to decide between Vena's chips that are $4.16 for a 13 oz. bag and Toby's chips for $3.06 for an 8.5 oz. bag. Which chips are the better buy and by how much?

6.RP.2

19

Cody biked a total of 22 kilometers by making 11 trips to work. How many trips will Cody have to make to bike a total of 30 kilometers?

6.RP.2

20

Ed completely filled his 18-gallon tank of gas with regular fuel for $54.36. As he left the gas station, he noticed the station across the street sold regular fuel priced at $2.91 per gallon. How much money could Ed have saved per gallon if he had gone to the station across the street?

6.RP.2

6.RP.2 Task Cards

ANSWER KEY

1. **13 cups**	2. **8 miles per hour**	3. **32 tests**	4. **12 pastries**
5. **$9**	6. **21 pounds**	7. **45 cents**	8. **12 hours**
9. **$7.50**	10. **5 nights**	11. **⅝ of a cup**	12. **20 pies**
13. **49 plants**	14. **⅛ of a meter**	15. **4 hours**	16. **One 12-pack of 12oz. cans**
17. **24 postcards**	18. **Vena's chips are cheaper by $0.04 per ounce**	19. **15 trips**	20. **$0.11**

1

Levi runs cross country. He runs 5 miles in 45 minutes. He runs 20 miles in 180 minutes. If he keeps the same pace, how long will it take him to run 12 miles? Fill in the table with the missing time for the 12-mile run.

6.RP.3

2

Levi runs cross country. He runs 5 miles in 45 minutes. He runs 20 miles in 180 minutes. If he keeps the same pace, how long will it take him to run 12 miles? Fill in the graph with the missing data and the data provided.

6.RP.3

3

Using the coordinate graph, how many minutes would it take for Levi to run 8 miles?

6.RP.3

4

Using the coordinate graph, how many minutes would it take for Levi to run 15 miles?

6.RP.3

5

For every 3 cups of flour, 4 batches of brownies can be made. Create a table showing the batches of brownies that can be made with 3, 6, 9, 15, and 18 cups of flour.

6.RP.3

6

For every 3 cups of flour, 4 batches of brownies can be made. Create a coordinate graph showing the batches of brownies that can be made with 3, 6, 9, 15, and 18 cups of flour.

6.RP.3

7

Using the coordinate graph, how many total cups of flour are needed to make 9 batches of brownies?

6.RP.3

8

Using the coordinate graph, how many total cups of flour are needed to make 21 batches of brownies?

6.RP.3

9

Use the double number line on the answer sheet to solve the problem.

The ratio of boys to girls in gym class was 9 to 6. If there were 54 boys, how many girls were in gym class?

6.RP.3

10

Use the double number line on the answer sheet to solve the problem.

A bag of marbles had 7 blue marbles for every 11 yellow marbles. If the bag had 88 yellow marbles, how many blue marbles would there be?

6.RP.3

11

If it snowed 36 centimeters in 6 hours, how much snow fell per hour if it snowed at a constant rate?

6.RP.3

12

If it took 14 hours to mow 8 lawns, then at that rate, how many lawns could be mowed in 35 hours? What was the rate of lawns mowed per hour?

6.RP.3

13

A pet store was selling 2 lizards for $14.48. If they ended up selling 6 lizards, how much money would they have earned?

6.RP.3

14

The grocery store charges $6.85 for 5 bags of potatoes. If someone bought 7 bags of potatoes, how much would it cost them?

6.RP.3

15

The concession stand charges $8.75 for 7 hotdogs. If someone bought 4 hotdogs, how much would it cost them?

6.RP.3

16

Ginger bought 9 candy bars for $8.01. How much would Ginger have spent for 13 candy bars?

6.RP.3

17

There were 64 dogs and cats at the pet store. If 25% were cats, how many cats were at the pet store?

6.RP.3

18

Vince has 52 yellow and green marbles. If 75% of the marbles are yellow, how many yellow marbles does Vince have?

6.RP.3

19

Ruth has 80 pink and purple hair bows. If 40% of the hair bows are purple, how many purple hair bows does Ruth have?

6.RP.3

20

There are 130 fish at the zoo. If 80% are blue, how many blue fish are at the zoo?

6.RP.3

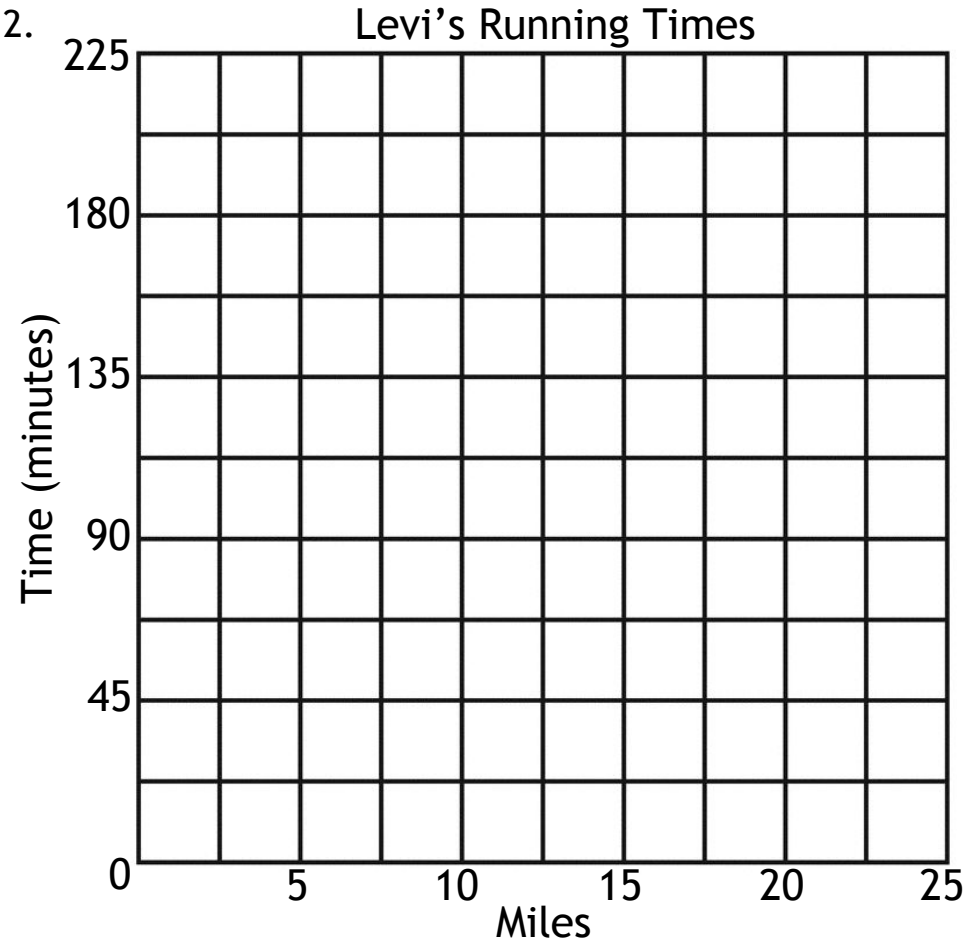
6.RP.3 Task Cards

Name: _____

1.

Miles	5	12	20
Time (minutes)	45		180

2.



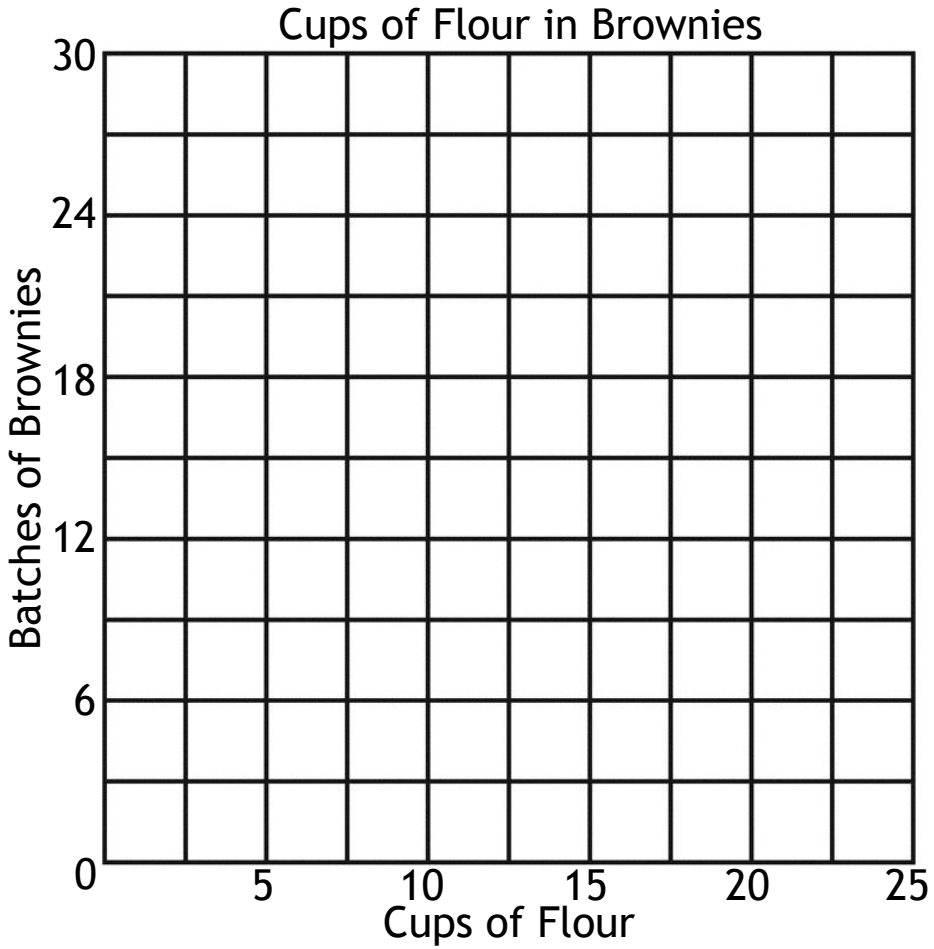
3. _____

4. _____

5.

Cups of Flour	3	6	9	15	21
Batches of Brownies	4				

6.



7. _____

8. _____

6.RP.3 Task Cards

Name: _____

9.

boys

girls

10.

yellow

blue

11.

12.

13.

14.

15.

16.

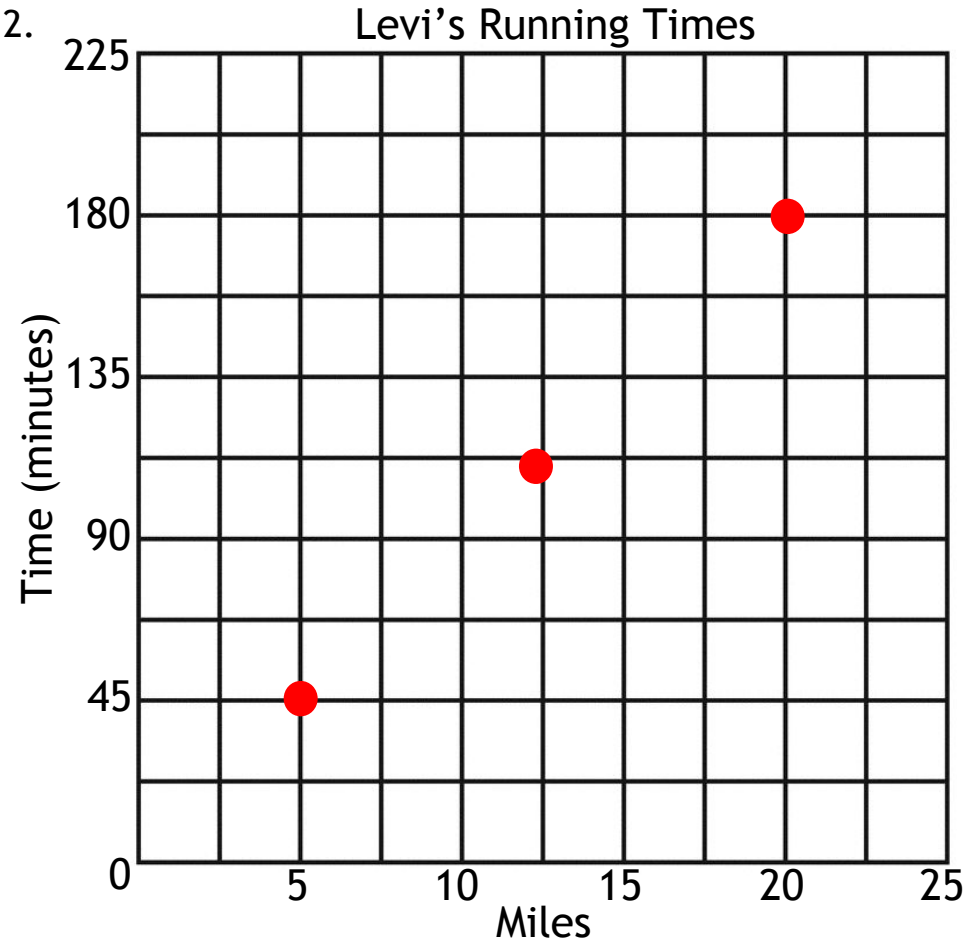
6.RP.3 Task Cards

ANSWER KEY

1.

Miles	5	12	20
Time (minutes)	45	**108**	180

2.



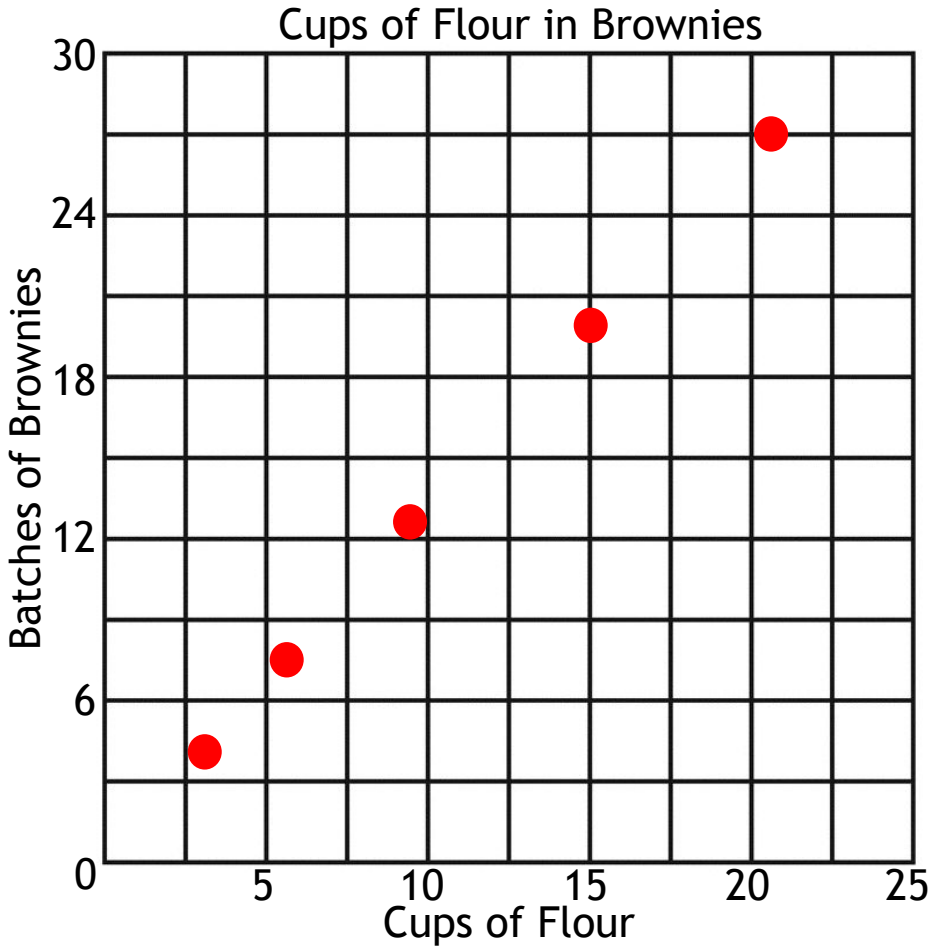
3. **72 minutes**

4. **135 minutes**

5.

Cups of Flour	3	6	9	15	21
Batches of Brownies	4	**8**	**12**	**20**	**28**

6.



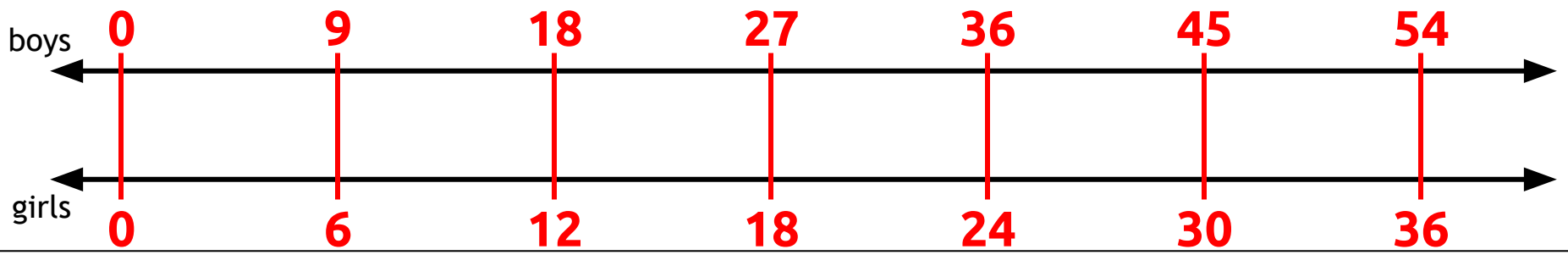
7. **12**

8. **28**

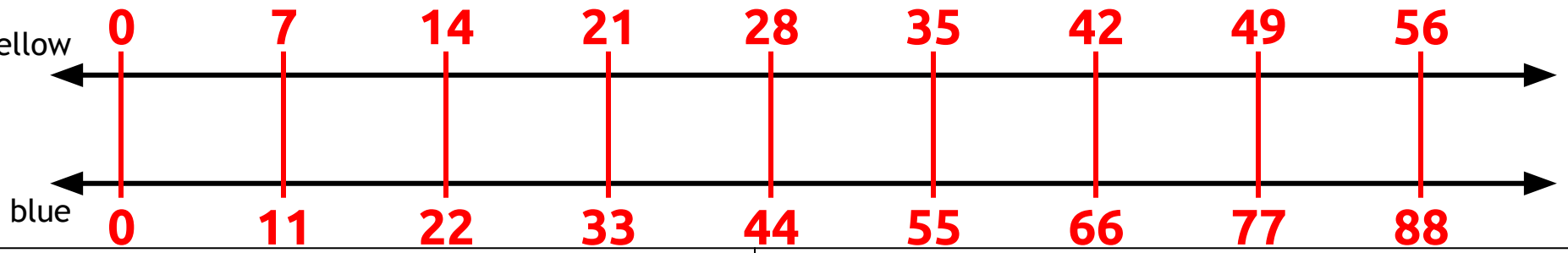
6.RP.3 Task Cards

ANSWER KEY

9.



10.



11. 6 cm per hour

12. 20 lawns; 1 ¾ hours per lawn

13. $43.44

14. $9.59

15. $5

16. $11.57