

Name: _____

6th Grade Math Common Core
Ratios & Proportional Relationships (6.RP)

Date: _____

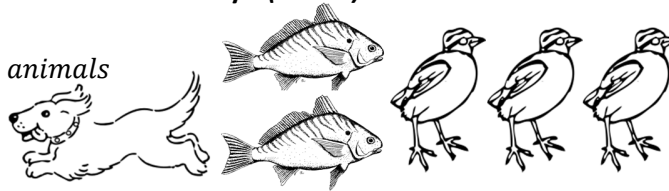
Score: _____

The following test covers 6th grade common core standards. Do your best to show all of the things that you have learned. Show all work and copy your answer in the answer blanks on the right.

Write each ratio in three different ways. (6.RP.1)

1. *Fish to birds*

2. *Birds to total animals*



1. _____

2. _____

3. _____

4. _____

Find the missing values in the ratio table.

Then, write the ratio in the blank. (6.RP.3a)

3.

Pencils	3	15	
Erasers	1		12

4.

Dogs	10	5	
Cats	4		14

Find the unit rate for each situation. (6.RP.3b)

5. *350 words in 5 minutes*

6. *200 meters in 40 seconds*

5. _____

6. _____

Solve (6.RP.2, 6.RP.3b)

7. Three movie tickets cost \$19.50. How much will it cost for 5 movie tickets?

7. _____

8. There are 77 students in the 6th grade band. The ratio of girls to boys is 7:4. How many girls are in the 6th grade band?

8. _____

9. You can buy a 6 rolls of toilet paper for \$6.97 or a 12 pack for \$9.24. Which is the better buy?

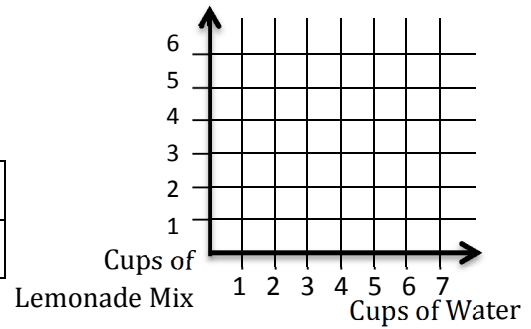
9. _____

10. Sarah can run 8.2 miles per hour. How many miles can she run in 2.5 hours?

10. _____

11. Complete the table and plot the first 3 ratios from the table on the coordinate plane provided. (6.RP.1)

Cups of Water	2	4	6			
Cups of Lemonade Mix	1	2	3			



Write the percent as a fraction in simplest form. (6.RP.3c)

12. 35%

13. 150%

12. _____

—

13. _____

—

Write the fraction or mixed number as a percent. (6.RP.3c)

14. $\frac{3}{5}$

15. $2\frac{5}{8}$

14. _____

—

Find the percent of a number. (6.RP.3c)

16. 12.5% of 56

17. 40% of 90

15. _____

—

Find the whole. (6.RP.3c)

18. 12% of what number is 30?

19. 40% of what number is 2?

16. _____

—

17. _____

—

Complete the statement. Round to the nearest hundredth

if necessary. (6.RP.3d)

20. 13 in. = _____ cm

21. 10 lb. \approx _____ kg

18. _____

—

19. _____

—

20. _____

—

21. _____

In Exercises 22–24, use the table that shows the number of first downs in a football game.

Team	Bears	Gators
Total First Downs	16	20
By rushing	8	4
By passing	6	15
By penalty	2	1

22. What percent of the Bears' first downs were by passing?

23. Which team had a smaller percent of first downs by penalty?

24. What percent of the Gators' first downs were by rushing?