



# Ratios and Rates Test

Form B



**Name** \_\_\_\_\_

**Grade** \_\_\_\_\_

**Date** \_\_\_\_\_

**School** \_\_\_\_\_

**Teacher** \_\_\_\_\_

## Demonstrate

What is the ratio of shirts to pants?



- (A) 3:11                      (B)  $\frac{8}{11}$
- (C) 8 to 3                    (D) 11 to 8





Complete the table to calculate the equivalent rate.

Unit	Given Rate	Unit Rate	Equivalent Rate
Dollars	9		
Pumpkins	3		6

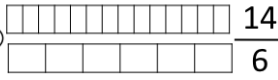
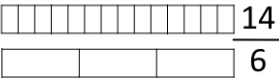
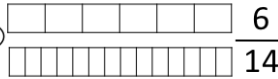
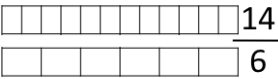
- (A)  $\frac{54}{6}$                       (B)  $\frac{3}{6}$
- (C)  $\frac{27}{6}$                       (D)  $\frac{18}{6}$

Directions: Choose the correct model and ratio for the scenario below.

There are 6 basketballs and 5 footballs. What is the ratio of footballs to total balls?

- (A) 5 to 6                       (B)  $\frac{5}{11}$  
- (C) 5:11                       (D) 11 to 5 

Frank's aunt made 14 cookies and 6 cupcakes. What is the rate of cookies to cupcakes?

- (A)   $\frac{14}{6}$                       (B)   $\frac{14}{6}$
- (C)   $\frac{6}{14}$                       (D)   $\frac{14}{6}$



## Practice

There are 10 children and 5 cakes. Which correctly shows the work to find the simplified rate.

(A)  $\frac{10}{5} = \frac{2}{1}$   
 $\div 5$  (over 10 and 5)  
 $\div 5$  (under 2 and 1)

(B)  $\frac{10}{5} = \frac{20}{10}$   
 $\times 2$  (over 10 and 5)  
 $\times 2$  (under 20 and 10)

(C)  $\frac{10}{5} = \frac{2}{1}$   
 $\div 5$  (over 10 and 5)  
 $\div 5$  (under 2 and 1)

(D)  $\frac{10}{5} = \frac{5}{1}$   
 $\div 5$  (over 10 and 5)  
 $\div 5$  (under 5 and 1)

Complete the table to calculate the unit rate of miles per gallon.

Unit	Given Rate	Unit Rate
Miles	70	
Gallons	7	

(A)  $\frac{1}{7}$

(B)  $\frac{10}{1}$

(C)  $\frac{1}{10}$

(D)  $\frac{7}{1}$

There are 48 children and 6 teams. What is the unit rate of children per team?

(A)  $\frac{8}{1}$

(B)  $\frac{12}{1}$

(C)  $\frac{8}{6}$

(D)  $\frac{16}{2}$

What numbers are missing from the table?

Unit	Given Rate	Unit Rate	Equivalent Rate
Miles	72		
Gallons	8	1	5

(A) 6, 30

(B) 8, 40

(C) 9, 40

(D) 9, 45



1

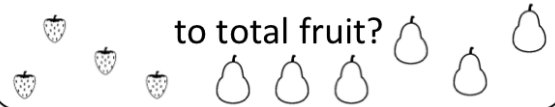
What is the ratio of chickens to cats?



- (A) 4:3                      (B) 4:7  
(C) 3 to 4                  (D)  $\frac{3}{7}$

2

What is the ratio of strawberries to total fruit?



- (A) 6:4                      (B) 4:10  
(C) 4 to 6                  (D) 10 to 4

3

The bus has 12 seats and 5 passengers. What is the rate of seats to passengers?

- (A)  $\frac{12}{5}$                       (B)  $\frac{12}{5}$   
(C)  $\frac{5}{12}$                       (D)  $\frac{5}{12}$

4

There are 20 candies in 5 bags. Which correctly shows the work to find the simplified rate.

- (A)  $\frac{20}{5} = \frac{20}{5}$  (divided by 1)  
(B)  $\frac{20}{5} = \frac{4}{1}$  (divided by 5)  
(C)  $\frac{20}{5} = \frac{40}{10}$  (multiplied by 2)  
(D)  $\frac{20}{5} = \frac{4}{1}$  (multiplied by 5)

5

What number is missing from the table?

Unit	Given Rate	Unit Rate
Bottles	12	
Athletes	3	1

- (A) 5                      (B) 2  
(C) 4                      (D) 10

6

What number is missing from the table?

Unit	Given Rate	Unit Rate
Students	5	1
Pencils	35	

- (A) 7                      (B) 5  
(C) 2                      (D) 6



7

What number is missing from the table?

Unit	Given Rate	Unit Rate
Cars	36	
Bicycles	4	1

- (A) 4                      (B) 8  
(C) 9                      (D) 5

8

There are 15 cupcakes and 3 boys. What is the unit rate of cupcakes per boy?

- (A) 1 to 15              (B) 1 to 5  
(C) 15 to 3              (D) 5 to 1

9

There were 24 wheels and 4 school buses. What is the unit rate of wheels to school buses?

- (A)  $\frac{6}{1}$                       (B)  $\frac{1}{7}$   
(C)  $\frac{24}{4}$                       (D)  $\frac{8}{1}$

10

After a storm, it was reported there had been 12 tornadoes in 6 towns. What is the simplified rate of tornadoes to towns?

- (A)  $\frac{1}{2}$                       (B)  $\frac{2}{1}$   
(C)  $\frac{12}{6}$                       (D)  $\frac{6}{12}$

11

There are 6 plates and 15 bowls. What is the simplified ratio of bowls to total dishes?

- (A)  $\frac{15}{6}$                       (B)  $\frac{5}{7}$   
(C)  $\frac{6}{21}$                       (D)  $\frac{15}{11}$

12

Jonah drove 80 miles on 4 gallons of gas. What is the unit rate of miles per gallon?

- (A) 1 to 20              (B)  $\frac{80}{4}$   
(C) 20 to 1              (D)  $\frac{4}{80}$



13

Juan has 15 cats and 5 dogs. What is the unit rate of cats to dogs?

(use table, if needed)

Unit	Given Rate	Unit Rate

(A)  $\frac{1}{3}$

(B)  $\frac{15}{5}$

(C)  $\frac{5}{15}$

(D)  $\frac{3}{1}$

14

There are 6 striped shirts and 4 white shirts. What is the simplified ratio of white shirts to striped shirts?

(A)  $\frac{3}{2}$

(B)  $\frac{2}{3}$

(C)  $\frac{4}{6}$

(D)  $\frac{6}{4}$

15

There are 4 rakes and 8 shovels. What is the simplified ratio of shovels to rakes?

(A)  $\frac{2}{1}$

(B)  $\frac{4}{8}$

(C)  $\frac{1}{2}$

(D)  $\frac{8}{4}$

16

Complete the table to calculate the equivalent rate.

Unit	Given Rate	Unit Rate	Equivalent Rate
Containers	4		7
Golf balls	24		

(A)  $\frac{7}{36}$

(B)  $\frac{7}{12}$

(C)  $\frac{7}{48}$

(D)  $\frac{7}{42}$

17

There are 40 chairs in 8 rows. What is the unit rate of chairs to rows?

(A)  $\frac{8}{40}$

(B)  $\frac{40}{8}$

(C)  $\frac{5}{1}$

(D)  $\frac{20}{4}$

18

Complete the table to calculate the equivalent rate.

Unit	Given Rate	Unit Rate	Equivalent Rate
Cows	9		4
Legs	36		

(A)  $\frac{4}{16}$

(B)  $\frac{4}{12}$

(C)  $\frac{4}{6}$

(D)  $\frac{4}{9}$



19

There are 12 sheep and 24 lambs. What is the unit rate of lambs per sheep?

- (A) 12 to 24      (B) 2 to 1  
(C) 3 to 6      (D) 24 to 12

20

Directions: Choose the correct model and ratio for the scenario below.

There are 3 cats and 4 dogs. What is the ratio of dogs to total pets?

- (A) 3:7       (B) 4 to 7   
(C)  $\frac{3}{4}$        (D) 4:3 

21

Mina and Julissa are training for a marathon. Mina can run 14 miles in 2 hours. Julissa can run 24 miles in 3 hours. Assuming they run at the same rate, who runs faster?

- (A) Mina      (B) Julissa

STOP