



Ratios and Rates Test

Form A



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

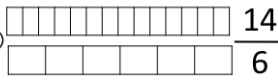
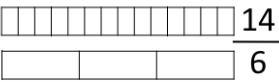

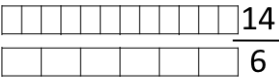
- (A) $\frac{54}{6}$ (B) $\frac{3}{6}$
- (C) $\frac{27}{6}$ (D) $\frac{18}{6}$

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

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

There are 5 forks and 4 spoons.
What is the ratio of forks to spoons?

- (A) 4:5  (B) 5 to 4 
- (C) 5:4  (D) 5 to 9 

2

There are 6 fish and 9 seahorses. Which correctly shows the work to find the simplified rate.

- (A) $\frac{6}{9} = \frac{18}{27}$ (multiply numerator and denominator by 3)
- (B) $\frac{6}{9} = \frac{2}{3}$ (divide numerator and denominator by 3)
- (C) $\frac{6}{9} = \frac{12}{18}$ (multiply numerator and denominator by 2)
- (D) $\frac{6}{9} = \frac{2}{3}$ (divide numerator and denominator by 3)

3

What is the ratio of small bananas to total bananas?



- (A) 3:14 (B) 11 to 3
- (C) $\frac{3}{11}$ (D) 14 to 3

4

There were 9 robin eggs and 3 robins. What is the simplified rate of robin eggs to robins?

- (A) $\frac{3}{1}$ (B) $\frac{9}{3}$
- (C) $\frac{1}{3}$ (D) $\frac{3}{9}$

5

What is the ratio of cars to trucks?



- (A) 6:7 (B) 6:13
- (C) 7 to 13 (D) $\frac{7}{6}$

6

What is the ratio of penguins to polar bears?

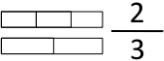



- (A) 5 to 7 (B) $\frac{5}{2}$
- (C) 2 to 5 (D) 5:7





7

There are 2 boys for every 3 girls in the class. What is the rate of girls to boys?

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

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

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

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

8

Jamie paid \$35 for 5 lunches. What is the unit rate of dollars per lunch?

(A) 7 to 1

(B) 5 to 1

(C) 35 to 5

(D) 1 to 7

9

There are 6 pears and 8 kiwis. What is the simplified ratio of pears to kiwis?

(A) $\frac{4}{3}$

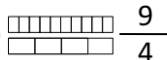
(B) $\frac{6}{14}$


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

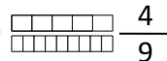
(D) $\frac{3}{4}$

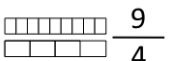
10

The house has 4 doors and 9 windows. What is the rate of windows to doors?

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

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

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

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

11

There are 6 basketballs and 18 athletes. What is the unit rate of athletes per basketball?

(A) 3 to 1

(B) 18 to 6

(C) 6 to 1

(D) 1 to 3

12

There were 20 students and 5 cars. What is the unit rate of students to cars?

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

(B) $\frac{4}{1}$

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

(D) $\frac{20}{5}$



13

There are 2 shoes and 10 sandals.
What is the simplified ratio of sandals to shoes?

- (A) $\frac{5}{1}$ (B) $\frac{10}{2}$
(C) $\frac{2}{10}$ (D) $\frac{1}{5}$

14

What numbers are missing from the table?

Unit	Given Rate	Unit Rate	Equivalent Rate
Miles	10		
Gallons	2	1	7

- (A) 35, 7 (B) 5, 25
(C) 2, 30 (D) 5, 35

15

Anthony spent \$24 for 3 baseballs. What is the unit rate of dollars to baseballs?
(use table, if needed)





Unit	Given Rate	Unit Rate

- (A) $\frac{1}{8}$ (B) $\frac{7}{1}$
(C) $\frac{24}{3}$ (D) $\frac{8}{1}$

16

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

There are 7 elephants and 2 monkeys.
What is the ratio of monkeys to elephants?

- (A) 7:2  (B) 2 to 7 
(C) $\frac{2}{7}$  (D) 7:2 

17

What numbers are missing from the table?

Unit	Given Rate	Unit Rate	Equivalent Rate
Students	4		3
Teachers	28	7	

- (A) 2, 18 (B) 1, 14
(C) 4, 21 (D) 1, 21

18

It took Mary 5 hours to drive 150 miles. What is the unit rate of miles per hour?

- (A) $\frac{1}{30}$ (B) $\frac{5}{150}$
(C) 150 to 1 (D) 30 to 1



19

Complete the table to calculate the equivalent rate.

Unit	Given Rate	Unit Rate	Equivalent Rate
Dollars	12		
Pumpkins	4		11

(A) $\frac{4}{11}$

(B) $\frac{36}{11}$

(C) $\frac{33}{11}$

(D) $\frac{12}{11}$

20

There are 3 apples and 9 bananas. What is the simplified ratio of apples to total pieces of fruit?

(A) $\frac{1}{4}$

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

(C) $\frac{3}{12}$

(D) $\frac{3}{9}$

21

Mrs. Jones can feed her family of 3 for \$90 per week. Mr. Rosco can feed his family of 5 for \$125 per week. Who pays less per person?

(A) Mrs. Jones

(B) Mr. Rosco

