

Student Name: \_\_\_\_\_ Score: \_\_\_\_\_

**Simplify Ratio: Word Problems**

Questions	Workspace
<p>The ratio of boys to girls in a kindergarten is 2:3. If the number of boys is 12, find the number of girls.</p> <p>Answer:</p>	
<p>In a basket, there are 24 good oranges and rest are bad oranges. The ratio of good oranges to the bad oranges is 3 : 1, find the number of bad oranges.</p> <p>Answer:</p>	
<p>In a play school, there are 16 red balls and the rest are white balls. The ratio of red balls to white balls is 4 : 5. Find the number of white balls.</p> <p>Answer:</p>	
<p>The distance travelled by Ben and Tim is in the ratio 3 : 4. The distance travelled by Ben is 18 miles. Find the distance travelled by Tim.</p> <p>Answer:</p>	

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## Equivalent Ratios (J)

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Fill in the blank to make an equivalent ratio.

$9 : 6 = \underline{\hspace{1cm}} : 12$

$\underline{\hspace{1cm}} : 3 = 12 : 6$

$4 : 2 = \underline{\hspace{1cm}} : 6$

$7 : 5 = \underline{\hspace{1cm}} : 10$

$3 : \underline{\hspace{1cm}} = 12 : 28$

$5 : 6 = 10 : \underline{\hspace{1cm}}$

$4 : 4 = \underline{\hspace{1cm}} : 16$

$6 : \underline{\hspace{1cm}} = 24 : 28$

$3 : 2 = 15 : \underline{\hspace{1cm}}$

$6 : 2 = \underline{\hspace{1cm}} : 6$

$6 : 2 = 30 : \underline{\hspace{1cm}}$

$6 : \underline{\hspace{1cm}} = 30 : 30$

$\underline{\hspace{1cm}} : 4 = 8 : 16$

$2 : 5 = 10 : \underline{\hspace{1cm}}$

$4 : 6 = \underline{\hspace{1cm}} : 12$

$\underline{\hspace{1cm}} : 4 = 36 : 16$

$\underline{\hspace{1cm}} : 6 = 10 : 30$

$5 : 6 = 25 : \underline{\hspace{1cm}}$

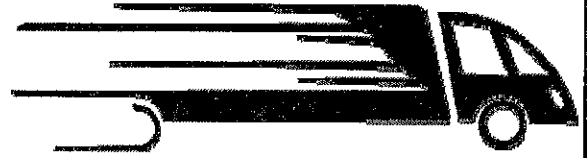
$4 : 2 = \underline{\hspace{1cm}} : 4$

$2 : 6 = 8 : \underline{\hspace{1cm}}$

Name \_\_\_\_\_

Date \_\_\_\_\_

## Ratios Word Problems



Solve the problems below.

1. The ratio of boys to girls in a class room is 7 to 11. If there are a total of 49 boys in the classroom, then how many boys and girls are there altogether?
2. The ratio of marbles to stones in a large pot is 6 to 7. If there are 42 marbles, then how many stones are there?
3. The ratio of coins to notes in a bag is 3 to 8. If there are total of 24 coins, then how many notes are there?
4. The ratio of black bags to blue bags is 5 to 3. If there are a total of 10 black bags, then how many blue bags are there?
5. The ratio of trucks to cars is 7 to 8. If there are a total of 21 trucks, how many cars are there?
6. The ratio of red ribbons to green ribbons is 4 to 6. If there are a total of 32 red ribbons, then how many green ribbons are there?
7. The volume of water in two containers is in the ratio of 6 to 7. If the volume of first container is 36 liters, find the volume of second container?

18 A pole has a shadow that is 15 feet long. Mary is 4 feet tall and her shadow is 10 feet tall. How tall is the pole?

- ☐ 12 feet
- ☐ 6 feet
- ☐ 3 feet
- ☐ 14 feet

19 The table shows the number of each type of flower in a flower bed. What is the ratio of tulips to daffodils?

- ☐ 6 : 7
- ☐ 1 : 2
- ☐ 7 : 8
- ☐ 8 : 7

Types of Flowers	
Flower	Number of Flowers
Marigolds	30
Tulips	16
Daffodils	14

20 Write the ratio 48 to 60 in simplest form.

- ☐ 4/6
- ☐ 3/5
- ☐ 4/7
- ☐ 4/5

21 It costs \$2.25 to buy 9 pieces of candy. Which shows the unit price per piece of candy?

- ☐ 25 cents per piece
- ☐ 50 cents per piece
- ☐ 35 cents per piece
- ☐ 5 cents per piece

22 The scale on a map is: 1 centimeter = 82 kilometers. The straight distance between Johnsonville, SC and Greenville, SC was 6 centimeters. What is the actual distance in kilometers?

- ☐ 60 kilometers
- ☐ 492 kilometers
- ☐ 400 kilometers
- ☐ 164 kilometers

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**Reduce the Ratio**

Easy: S1

A) Reduce each ratio to its lowest term.

1)  $8:12 = \boxed{\phantom{00}}$

2)  $15:9 = \boxed{\phantom{00}}$

3)  $24:18 = \boxed{\phantom{00}}$

4)  $16:14 = \boxed{\phantom{00}}$

5)  $15:45 = \boxed{\phantom{00}}$

6)  $2:4 = \boxed{\phantom{00}}$

B) Write each ratio in its simplest form.

1)  $24\text{ m} : 12\text{ m} = \underline{\hspace{2cm}}$

2)  $8\text{ yd} : 32\text{ yd} = \underline{\hspace{2cm}}$

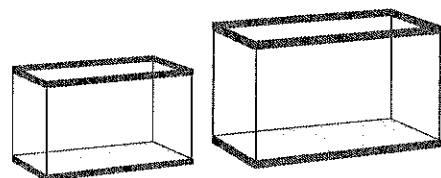
3)  $15\text{ in} : 18\text{ in} = \underline{\hspace{2cm}}$

4)  $12\text{ qt} : 4\text{ qt} = \underline{\hspace{2cm}}$

5)  $2\text{ pt} : 10\text{ pt} = \underline{\hspace{2cm}}$

6)  $22\text{ gal} : 6\text{ gal} = \underline{\hspace{2cm}}$

C) Evelyn bought two fish tanks with the capacity of 15 gallons and 30 gallons each. Write the ratio of the capacity of the smaller tank to the capacity of the larger tank. Reduce the ratio to its lowest term.



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## Equivalent Ratio

Sheet 1

A) Write any two equivalent ratios for each ratio.

1) 1 : 2

\_\_\_\_\_

2) 4 : 9

\_\_\_\_\_

3) 5 : 3

\_\_\_\_\_

4) 7 : 10

\_\_\_\_\_

5) 8 : 11

\_\_\_\_\_

6) 12 : 13

\_\_\_\_\_

7) 9 : 20

\_\_\_\_\_

8) 17 : 5

\_\_\_\_\_

B) Complete the equivalent ratio table.

1)

7	21	35	
3			27

2)

5		25	35
9	18		

3)

10	20	50	70
13			

4)

11	22		
2		8	16