

Ratio Practice

Name: _____

Date: _____

Question 1

Convert to ratio notation without simplifying (either fraction or colon notation)

- I. The Lizards defeated the Coyotes in the regional basketball championship. The Lizards scored 105 points, and the Coyotes scored 99 points.
- (A) What is the ratio of the Lizard's points to the Coyote's points?
 - (B) What is the ratio of the Coyote's points to the Lizard's points?

- II. The wind speed in Lyon was 8 miles per hour on Boxing Day. The wind speed in Geneva was 6 miles per hour on the same day.
- (A) What is the ratio of Lyon's wind speed to Geneva's wind speed?
 - (B) What is the ratio of Geneva's wind speed to Lyon's wind speed?

- III. Delphine has seventy-three blocks, and Eloise has thirty-one blocks.
- (A) What is the ratio of Delphine's blocks to Eloise's blocks?
 - (B) What is the ratio of Eloise's blocks to Delphine's blocks?

Ratio Practice

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Question 1

Convert to ratio notation without simplifying (either fraction or colon notation)

I. The Lizards defeated the Coyotes in the regional basketball championship. The Lizards scored 105 points, and the Coyotes scored 99 points.

(A) What is the ratio of the **Lizard's points** to the **Coyote's points**?

(B) What is the ratio of the **Coyote's points** to the **Lizard's points**?

(A) $\frac{105 \text{ Lizard's points}}{99 \text{ Coyote's points}}$ **105 Lizard's points** : **99 Coyote's points**

(B) $\frac{99 \text{ Coyote's points}}{105 \text{ Lizard's points}}$ **99 Coyote's points** : **105 Lizard's points**

II. The wind speed in Lyon was 8 miles per hour on Boxing Day. The wind speed in Geneva was 6 miles per hour on the same day.

(A) What is the ratio of **Lyon's wind speed** to **Geneva's wind speed**?

(B) What is the ratio of **Geneva's wind speed** to **Lyon's wind speed**?

(A) $\frac{8 \text{ Lyon's wind speed (mph)}}{6 \text{ Geneva's wind speed (mph)}}$ **8 mph (Lyon)** : **6 mph (Geneva)**

(B) $\frac{6 \text{ Geneva's wind speed (mph)}}{8 \text{ Lyon's wind speed (mph)}}$ **6 mph (Geneva)** : **8 mph (Lyon)**

III. Delphine has seventy-three blocks, and Eloise has thirty-one blocks.

(A) What is the ratio of **Delphine's blocks** to **Eloise's blocks**?

(B) What is the ratio of **Eloise's blocks** to **Delphine's blocks**?

(A) $\frac{73 \text{ Delphine's blocks}}{31 \text{ Eloise's blocks}}$ **73 Delphine's blocks** : **31 Eloise's blocks**

(B) $\frac{31 \text{ Eloise's blocks}}{73 \text{ Delphine's blocks}}$ **31 Eloise's blocks** : **73 Delphine's blocks**

Ratio Practice

Question 2

Convert to ratio notation and simplify (either fraction or colon notation)

- I. Clementine travels from Bordeaux to Marseille. She travels 720 kilometers in 9 hours. What is the ratio of kilometers per hour?

$$\frac{720 \text{ kilometers}}{9 \text{ hours}} \longrightarrow \frac{720 \text{ kilometers} \div 9}{9 \text{ hours} \div 9} = \frac{80 \text{ kilometers}}{1 \text{ hour}}$$

OR

$$80 \text{ kilometers} : 1 \text{ hour}$$

- II. Captain Gregg travels fifteen nautical miles over five days. What is the ratio of nautical miles per day?

$$\frac{15 \text{ nautical miles}}{5 \text{ days}} \longrightarrow \frac{15 \text{ nautical miles} \div 5}{5 \text{ days} \div 5} = \frac{3 \text{ nautical miles}}{1 \text{ day}}$$

OR

$$3 \text{ nautical miles} : 1 \text{ day}$$

- III. Burt travels by muscle car from Atlanta to Texarkana. The trip takes 9 hours, and Burt travels 657 miles. What is the ratio of miles per hour?

$$\frac{657 \text{ miles}}{9 \text{ hours}} \longrightarrow \frac{657 \text{ miles} \div 9}{9 \text{ hours} \div 9} = \frac{73 \text{ miles}}{1 \text{ hour}}$$

OR

$$73 \text{ miles} : 1 \text{ hour}$$

