Ratio Sample Checkpoint

1 **The ratio of boys to girls in the band is 25 to 75. What is the ratio of girls to total students in the band?**

A 25 to 100

B 75 to 100

C 75 to 25

D 25 to 75

2 **Tom's sport bag contained 2 footballs, 6 tennis balls, 10 golf balls and 3 baseballs. What is the ratio of tennis balls to total balls in the sport bag?**

F $\dfrac{6}{21}$

G $\dfrac{21}{6}$

H $\dfrac{6}{15}$

J $\dfrac{8}{13}$

3 **The picture shows circles, squares and hearts. What is the ratio of circles to all shapes?**

A $\dfrac{1}{2}$

B $\dfrac{9}{2}$

C $\dfrac{2}{9}$

D $\dfrac{2}{3}$

4 **A bag contains red apples and yellow apples. The ratio of red apples to yellow apples in the bag is 9 to 4. Which of these statements could be true?**

F There are exactly 6 red apples and 1 yellow apple in the bag.
G There are exactly 18 red apples and 8 yellow apples in the bag.
H There are exactly 4 red apples and 9 yellow apples in the bag.
J There are exactly 9 red apples and 13 yellow apples in the bag.

5 **There are 30 red marbles and 150 blue marbles in a box. What is the ratio of blue marbles to red marbles?**

A $\dfrac{30}{150}$

B $\dfrac{30}{80}$

C $\dfrac{150}{30}$

D $\dfrac{180}{30}$

6 **Sam owns a canoe rental company with 120 boats. He has 55 wood boats, and the rest are fiberglass. What is the ratio of wood boats to fiberglass boats?**

F 55:65
G 120:65
H 65:55
J 120:55

7 **Which relationship best describes 20:9?**

A The ratio of boys to girls if Mrs. Ball has 9 girls and 11 boys in her class
B The ratio of girls to total students if Mrs. Ball has 9 girls and 11 boys in her class
C The ratio of girls to boys if Mrs. Ball has 9 girls and 11 boys in her class
D The ratio of total students to girls if Mrs. Ball has 9 girls and 11 boys in her class

8 **Which of the following scenarios illustrates the ratio $\dfrac{10}{19}$?**

F The ratio of fiction books to the total amount of books if there are 10 nonfiction books and 9 fiction books on Mary's shelf.

G The ratio of the elevation of town A to the elevation of Tessa's house if town A is 1,000 feet above sea level and Tessa's house is at 1,900 feet above sea level.

H The ratio of days Sally went outside for recess to the days that she stayed inside if Sally has been in school for a total of 63 days and 33 days have been spent inside for recess.

J The ratio of red marbles to blue marbles from a bag containing 38 blue marbles and 22 red marbles.