GRADE 6 · PROPORTIONAL REASONING

Use ratio language to describe two quantities

NAME	DATE	SCORE
		/ 10

1 A fruit punch uses 12 cups of juice and 15 cups of water. Which sentence describes the ratio of cups of juice to cups of water?

- ◯ The ratio of cups of juice to cups of water is 4 to 5.
- ◯ The ratio of cups of juice to cups of water is 4 to 7.
- ◯ The ratio of cups of juice to cups of water is 5 to 4.
- ◯ The ratio of cups of juice to cups of water is 4 to 9.

2 A class has 10 boys and 4 girls. Which sentence describes the ratio of boys to girls?

- ◯ For every 5 boys, there are 2 girls.
- ◯ For every 5 boys, there are 7 girls.
- ◯ For every 8 boys, there are 2 girls.
- ◯ For every 2 boys, there are 5 girls.

3 A pet shop has 9 cats and 15 dogs. Which sentence describes the ratio of dogs to cats?

- ◯ The ratio of dogs to cats is 5 to 8.
- ◯ The ratio of dogs to cats is 9 to 3.
- ◯ The ratio of dogs to cats is 5 to 3.
- ◯ The ratio of dogs to cats is 3 to 5.

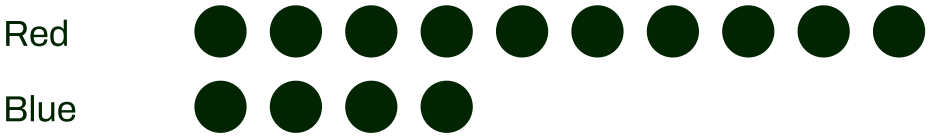
4 The picture below shows the red and blue marbles in a bag. Which sentence describes the ratio of blue marbles to red marbles?

Red ● ● ● ● ● ●

Blue ● ● ● ●

- ◯ For every 2 blue marbles, there are 4 red marbles.
- ◯ For every 3 blue marbles, there are 2 red marbles.
- ◯ For every 2 blue marbles, there are 3 red marbles.
- ◯ For every 2 blue marbles, there are 5 red marbles.

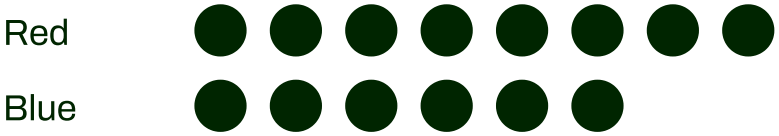
5 The picture below shows the red and blue marbles in a bag. Which sentence describes the ratio of blue marbles to red marbles?



- ◯ The ratio of blue marbles to red marbles is 5 to 2.
- ◯ The ratio of blue marbles to red marbles is 2 to 5.
- ◯ The ratio of blue marbles to red marbles is 2 to 7.
- ◯ The ratio of blue marbles to red marbles is 2 to 8.

---

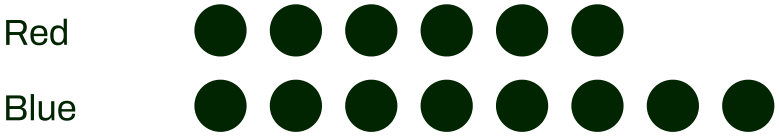
6 The picture below shows the red and blue marbles in a bag. Which sentence describes the ratio of red marbles to blue marbles?



- ◯ The ratio of red marbles to blue marbles is 5 to 3.
- ◯ The ratio of red marbles to blue marbles is 4 to 7.
- ◯ The ratio of red marbles to blue marbles is 3 to 4.
- ◯ The ratio of red marbles to blue marbles is 4 to 3.

---

7 The picture below shows the red and blue marbles in a bag. Which sentence describes the ratio of red marbles to blue marbles?



- ◯ For every 3 red marbles, there are 4 blue marbles.
- ◯ For every 4 red marbles, there are 3 blue marbles.
- ◯ For every 3 red marbles, there are 7 blue marbles.
- ◯ For every 3 red marbles, there are 5 blue marbles.

8 A fruit punch uses 10 cups of juice and 4 cups of water. Which sentence describes the ratio of cups of juice to cups of water?

- ◯ For every 5 cups of juice, there are 7 cups of water.
- ◯ For every 2 cups of juice, there are 5 cups of water.
- ◯ For every 5 cups of juice, there are 2 cups of water.
- ◯ For every 8 cups of juice, there are 2 cups of water.

9 A class has 6 boys and 4 girls. Which sentence describes the ratio of boys to girls?

- ◯ The ratio of boys to girls is 3 to 2.
- ◯ The ratio of boys to girls is 4 to 2.
- ◯ The ratio of boys to girls is 3 to 5.
- ◯ The ratio of boys to girls is 2 to 3.

10 A pet shop has 9 cats and 15 dogs. Which sentence describes the ratio of cats to dogs?

- ◯ For every 5 cats, there are 3 dogs.
- ◯ For every 3 cats, there are 8 dogs.
- ◯ For every 3 cats, there are 5 dogs.
- ◯ For every 3 cats, there are 9 dogs.

ANSWER KEY · GRADE 6 · PROPORTIONAL REASONING

Use ratio language to describe two quantities

1. The ratio of cups of juice to cups of water is 4 to 5.
2. For every 5 boys, there are 2 girls.
3. The ratio of dogs to cats is 5 to 3.
4. For every 2 blue marbles, there are 3 red marbles.
5. The ratio of blue marbles to red marbles is 2 to 5.
6. The ratio of red marbles to blue marbles is 4 to 3.
7. For every 3 red marbles, there are 4 blue marbles.
8. For every 5 cups of juice, there are 2 cups of water.
9. The ratio of boys to girls is 3 to 2.
10. For every 3 cats, there are 5 dogs.