Introducing Ratios

Ratios & Rates • Answer Key

ANSWER KEY • Amplify Alignment: Grade 6 Accelerated, Unit 2, Lesson 1

1. Here are two sets of shapes. Complete each statement.

a Triangles 

Circles 

There are **5** triangles for every **3** circles.

b Squares 

Diamonds 

The ratio of diamonds to squares is **7** to **4** .

2. Here is a picture of a trail mix. Select all the statements that correctly describe the relationship between the raisins and the peanuts.

Raisins 

Peanuts 

- [x] **A.** The ratio of raisins to peanuts is 4 to 6.
- [x] **B.** For every 2 raisins, there are 3 peanuts.
- [ ] **C.** The ratio of raisins to peanuts is 6 : 4.
- [x] **D.** For every 3 peanuts, there are 2 raisins.
- [x] **E.** The ratio of peanuts to raisins is 3 : 2.
- [ ] **F.** For every 4 peanuts, there are 6 raisins.

3. A smoothie recipe uses 3 strawberries, 2 bananas, and 1 cup of yogurt.

Strawberries 

Bananas 

Yogurt (cups) 

a The ratio of bananas to cups of yogurt is **2** : **1** .

b The ratio of strawberries to bananas is **3** to **2** .

c There are **3** strawberries for every 1 cup of yogurt.

4. Three tricycles are parked outside a school. Each tricycle has 3 wheels, 1 seat, and 2 pedals.

a The ratio of wheels to seats is **9** : **3** .

b The ratio of pedals to seats is **6** to **3** .

c There are **3** wheels for every 1 seat.

d There are **2** pedals for every 1 seat.

5. The diagram shows the flowers in a small garden bed.

Roses 

Tulips 

Maya says the ratio of roses to tulips is 2 : 8. Jordan says the ratio of roses to tulips is 1 : 4. Who is correct? Explain your thinking.

Both are correct. There are 2 roses and 8 tulips, so 2 : 8 is correct. If you split the flowers into 2 equal groups, each group has 1 rose and 4 tulips, so for every 1 rose there are 4 tulips (1 : 4).

6. The diagram shows the cups of water and scoops of lemonade mix used to make a pitcher of lemonade.

Water (cups) 

Mix (scoops) 

Ari says the ratio of cups of water to scoops of mix is 6 : 3. Write another ratio Ari could use to describe the ratio of water to mix. Explain your thinking.

Sample answer: 2 : 1. The 6 cups of water and 3 scoops can be split into 3 equal groups of 2 cups of water and 1 scoop of mix. (12 : 6 is also an equivalent ratio.)