

Name _____

Problem Solving • Use Tables to Compare Ratios



COMMON CORE STANDARD—6.RP.3A
Understand ratio concepts and use ratio reasoning to solve problems.

Read each problem and solve.

1. Sarah asked some friends about their favorite colors. She found that 4 out of 6 people prefer blue, and 8 out of 12 people prefer green. Is the ratio of friends who chose blue to the total asked equivalent to the ratio of friends who chose green to the total asked?

Blue				
Friends who chose blue	4	8	12	16
Total asked	6	12	18	24

Green				
Friends who chose green	8	16	24	32
Total asked	12	24	36	48

Yes, $\frac{4}{6}$ is equivalent to $\frac{8}{12}$.

2. Lisa and Tim make necklaces. Lisa uses 5 red beads for every 3 yellow beads. Tim uses 9 red beads for every 6 yellow beads. Is the ratio of red beads to yellow beads in Lisa's necklace equivalent to the ratio in Tim's necklace?

3. Mitch scored 4 out of 5 on a quiz. Demetri scored 8 out of 10 on a quiz. Did Mitch and Demetri get equivalent scores?

4. Chandra ordered 10 chicken nuggets and ate 7 of them. Raul ordered 15 chicken nuggets and ate 12 of them. Is Chandra's ratio of nuggets ordered to nuggets eaten equivalent to Raul's ratio of nuggets ordered to nuggets eaten?

Lesson Check (6.RP.3a)

1. Mrs. Sahd distributes pencils and paper to students in the ratio of 2 pencils to 10 sheets of paper. Three of these ratios are equivalent to $\frac{2}{10}$. Which one is NOT equivalent?

$$\frac{1}{5} \quad \frac{7}{15} \quad \frac{4}{20} \quad \frac{8}{40}$$

2. Keith uses 18 cherries and 3 peaches to make a pie filling. Lena uses an equivalent ratio of cherries to peaches when she makes pie filling. Can Lena use a ratio of 21 cherries to 6 peaches? Explain.

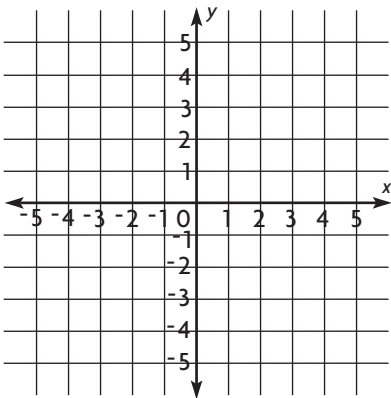
Spiral Review (6.RP.1, 6.NS.1, 6.NS.7a, 6.NS.8)

3. What is the quotient $\frac{3}{20} \div \frac{7}{10}$?

4. Which of these numbers is greater than -2.25 but less than -1 ?

$$1 \quad -1.5 \quad 0 \quad -2.5$$

5. Alicia plots a point at $(0, 5)$ and $(0, -2)$. What is the distance between the points?



6. Morton sees these stickers at a craft store. What is the ratio of clouds to suns?

