

MATH: proportions #1

_____ Name _____ Date _____

1. The Jane's macaroni-and-cheese recipe calls for 2 packages of cheddar cheese and 1 package of Parmesan cheese. Craig's macaroni-and-cheese recipe calls for 5 packages of cheddar and 3 packages of Parmesan. Whose recipe has a higher ratio of packages of cheddar cheese to packages of Parmesan cheese?

ANSWER:

2. Mrs. Booker and Mrs. Boone took polls of their second-grade classes to find out their students' favorite colors. In Mrs. Booker's class, 9 students said their favorite color was blue and 12 said their favorite color was red. In Mrs. Boone's class, 10 voted for blue and 11 for red. Whose class had a lower ratio of students who preferred blue to students who preferred red?

ANSWER:

3. In Mr. Yang's History class, 18 of the students received A's and 12 received B's. In his Social Studies class, 17 of the students got A's and 13 got B's. In which class did Mr. Yang give out a higher ratio of A's to B's?

ANSWER:

4. Tommy and Lucy are baking pies for a bake sale. Tommy baked 14 apple pies and 16 blueberry pies. Lucy baked 4 apple pies and 7 blueberry pies. Who baked a lower ratio of apple pies to blueberry pies?

ANSWER:

5. When preparing the cheese for their pizzas, the cooks at Ben's pizza restaurant mix 1 kilogram of Parmesan cheese and 4 kilograms of mozzarella. At Josh's pizza restaurant, the cooks mix 3 kilograms of Parmesan cheese and 18 kilograms of mozzarella. Which restaurant uses a higher ratio of Parmesan to mozzarella?

ANSWER:

6. Among the third graders at Castroville Elementary School, 18 play kickball during recess and 20 play four square. Among the fourth graders, 9 play kickball and 10 play four square. In which grade is there a higher ratio of kickball players to four-square players?

ANSWER:

7. During a road trip, Rita stopped at two rest stops. In the parking lot of the first rest stop, she counted 16 cars and 12 trucks. At the second rest stop, she counted 18 cars and 13 trucks. At which rest stop did Rita count a lower ratio of cars to trucks?

ANSWER:

8. Dave and Vera are photographers who specialize in portraits. Last year, Dave photographed 15 individuals and 5 families. Vera photographed 19 individuals and 8 families. Who photographed a higher ratio of individuals to families?

ANSWER:

9. At Dina's stables there are 12 stallions and 20 mares. At Mike's stables there are 16 stallions and 17 mares. Where is there a lower ratio of stallions to mares?

ANSWER: