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Chapter Review

1. For Problems 1a–1d, tell whether the fractions are equivalent by selecting the correct symbol.

1a. $\frac{4}{16}$ = $\frac{1}{4}$
≠

1c. $\frac{30}{100}$ = $\frac{3}{10}$
≠

1b. $\frac{3}{5}$ = $\frac{12}{15}$
≠

1d. $\frac{6}{10}$ = $\frac{5}{8}$
≠

2. Juan's mother gave him a recipe for trail mix.

$\frac{3}{4}$ cup cereal $\frac{1}{4}$ cup peanuts	$\frac{2}{3}$ cup almonds $\frac{1}{2}$ cup raisins
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Juan doubled the amount of almonds to $\frac{4}{3}$ cups. He says that is the same as $1\frac{1}{2}$ cups. Is he correct? Explain.

3. Taylor cuts $\frac{1}{5}$ sheet of construction paper for an arts and crafts project. Write $\frac{1}{5}$ as an equivalent fraction with the denominators shown.

10

15

25

40

4. A mechanic has sockets with the sizes shown. What other fractions could represent the socket that is $\frac{1}{4}$ inch? Use the denominators of the other sizes.

 $\frac{7}{8}$ in. $\frac{3}{16}$ in. $\frac{1}{4}$ in. $\frac{3}{8}$ in. $\frac{4}{8}$ in. $\frac{11}{16}$ in.

5. Darcy bought $\frac{3}{4}$ pound of hamburger for a barbecue.

Write two equivalent fractions.

$$\frac{3}{4} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

6. Jett is practicing the piano. He spends $\frac{1}{4}$ hour practicing scales and $\frac{1}{3}$ hour practicing the song for his recital. For Problems 6a–6c, choose Yes or No to tell whether each of the following is a true statement.

6a. 12 is a common denominator of $\frac{1}{4}$ and $\frac{1}{3}$. ☐ Yes ☐ No

6b. The amount of time spent practicing scales can be represented as $\frac{3}{12}$ hour. ☐ Yes ☐ No

6c. The amount of time spent practicing the recital song can be represented as $\frac{6}{12}$ hour. ☐ Yes ☐ No

7. In the school chorus, 1 out of 6 of the students are fourth graders. If there are 24 students in the school chorus, how many are fourth graders?

_____ students

8. Which pairs of fractions are equivalent? Mark all that apply.

☐ $\frac{8}{12}$ and $\frac{2}{3}$

☐ $\frac{4}{5}$ and $\frac{12}{16}$

☐ $\frac{3}{4}$ and $\frac{20}{28}$

☐ $\frac{7}{10}$ and $\frac{21}{30}$

9. Ren worked on his science fair project for $\frac{9}{10}$ hour. What are three ways Ren can write $\frac{9}{10}$ as a sum of fractions?

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10. Morita works in a florist shop and makes flower arrangements. She puts 10 flowers in each vase, and $\frac{2}{10}$ of the flowers are daisies.

Part A

If Morita makes 4 arrangements, how many daisies does she need? Show how you can check your answer.

_____ daisies

Part B

Last weekend, Morita used 10 daisies to make flower arrangements. How many flowers other than daisies did she use to make the arrangements? Explain your reasoning.

_____ other flowers

11. In Exie's homeroom, $\frac{10}{28}$ of the students have a cat, $\frac{6}{12}$ have a dog, and $\frac{2}{14}$ have a pet bird. For Problems 11a–11c, choose True or False for each statement.

11a. $\frac{5}{14}$ of the students have a cat. ☐ True ☐ False

11b. $\frac{1}{4}$ of the students have a dog. ☐ True ☐ False

11c. $\frac{1}{7}$ of the students have a pet bird. ☐ True ☐ False

12. Regina, Freya, Pablo, and Ellen hiked around Bear Pond. Regina hiked $\frac{7}{10}$ of the distance in an hour. Freya hiked $\frac{3}{6}$ of the distance in an hour. Pablo hiked $\frac{70}{100}$ of the distance in an hour. Ellen hiked $\frac{3}{8}$ of the distance in an hour. Compare the distances hiked by matching the statements to the correct symbol. Each symbol may be used more than once or not at all.

$\frac{7}{10}$		$\frac{3}{6}$			=
$\frac{70}{100}$		$\frac{7}{10}$			≠
$\frac{3}{6}$		$\frac{3}{8}$			

13. Ramon is having some friends over after a baseball game. Ramon's job is to make a vegetable dip. The ingredients for the recipe are given.

Ingredients in Vegetable Dip

$\frac{3}{4}$ cup parsley

$\frac{5}{8}$ cup buttermilk

$\frac{1}{3}$ cup dill

$\frac{1}{2}$ cup cream cheese

$\frac{6}{8}$ cup scallions

$\frac{1}{16}$ cup lemon juice

Part A

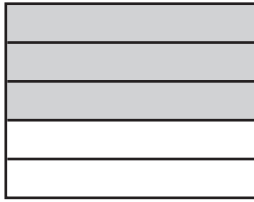
How many $\frac{1}{4}$ cups would Ramon use to measure the correct amount of parsley? Use a sum of unit fractions to explain.

Part B

Ramon says that he needs the same amount of two different ingredients. Is he correct? Support your answer with information from the problem.

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14. Jasira is ordering bread rolls for her party. She wants $\frac{3}{5}$ of the rolls to be whole wheat. What other fractions can represent the part of the rolls that will be whole wheat? Shade the models to show your work.



$\frac{3}{5}$

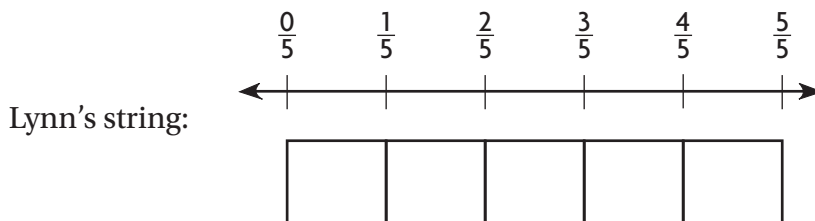
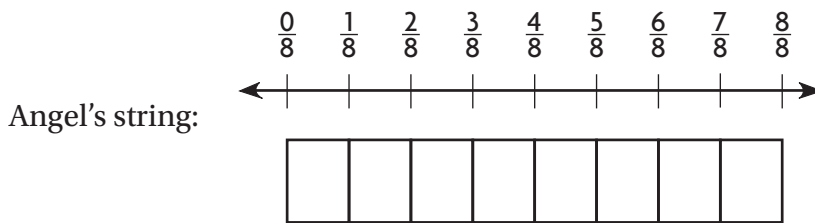


$\frac{\boxed{}}{25}$



$\frac{\boxed{}}{\boxed{}}$

15. Angel has $\frac{3}{8}$ yard of string and Lynn has $\frac{2}{5}$ yard of string. Do Angel and Lynn have the same amount of string? Shade the model to show how you found your answer. Explain your reasoning.



16. Kumani used $\frac{1}{4}$ yard of red ribbon. Fill in each box with a number from the tiles to show equivalent fractions for $\frac{1}{4}$. Not all numbers will be used.

$$\frac{1}{4} = \frac{\boxed{}}{8} = \frac{4}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

2	3	5	6
12	15	16	20

17. Abran has two same-sized rectangles divided into the same number of equal parts. One rectangle has $\frac{3}{4}$ of the parts shaded, and the other has $\frac{1}{3}$ of the parts shaded.

Part A

Into how many parts could each rectangle be divided? Show your work by drawing the parts of each rectangle.



Part B

Is there more than one possible answer to Part A? If so, did you find the least number of parts into which both rectangles could be divided? Explain your reasoning.

A large, empty rectangular box with a blue border, intended for a student to write their explanation for Part B.

18. Suki rode her bike $\frac{5}{4}$ miles. Claire rode her bike $\frac{3}{2}$ miles. Together, they rode a total of $2\frac{3}{4}$ miles. For Problems 18a–18c, answer the question.

18a. Write the distance Suki rode as a mixed number.

_____ miles

18b. Write the distance Claire rode as a mixed number.

_____ miles

18c. Write the total distance they rode together as a fraction greater than 1.

_____ miles