Name _____

Problem Solving • Find Equivalent Fractions

PROBLEM SOLVING
Lesson 6.5

COMMON CORE STANDARD CC.4.NF.1

Extend understanding of fraction equivalence and ordering.

Solve each problem.

1. Miranda is braiding her hair. Then she will attach beads to the braid. She wants $\frac{1}{3}$ of the beads to be red. If the greatest number of beads that will fit on the braid is 12, what other fractions could represent the part of the beads that are red?

   $\frac{2}{6}, \frac{3}{9}, \frac{4}{12}$

2. Ms. Groves has trays of paints for students in her art class. Each tray has 5 colors. One of the colors is purple. What fraction of the colors in 20 trays is purple?

3. Miguel is making an obstacle course for field day. At the end of every sixth of the course, there is a tire. At the end of every third of the course, there is a cone. At the end of every half of the course, there is a hurdle. At which locations of the course will people need to go through more than one obstacle?

4. Preston works in a bakery where he puts muffins in boxes. He makes the following table to remind himself how many blueberry muffins should go in each box.

Number of Blueberry Muffins	2	4	8	■
Total Number of Muffins	6	12	24	36

   How many blueberry muffins should Preston put in a box with 36 muffins?

TEST PREP

Lesson Check (CC.4.NF.1)

1. A used bookstore will trade 2 of its books for 3 of yours. If Val brings in 18 books to trade, how many books can she get from the store?

   Ⓐ 9

   Ⓑ 12

   Ⓒ 18

   Ⓓ 27

2. Every $\frac{1}{2}$ hour Naomi stretches her neck; every $\frac{1}{3}$ hour she stretches her legs; and every $\frac{1}{6}$ hour she stretches her arms. Which parts of her body will Naomi stretch when $\frac{2}{3}$ of an hour has passed?

   Ⓐ neck and legs

   Ⓑ neck and arms

   Ⓒ legs and arms

   Ⓓ none

Spiral Review (CC.4.OA.4, CC.4.NBT.4, CC.4.NBT.6, CC.4.NF.1)

3. At the beginning of the year, the Wong family car had been driven 14,539 miles. At the end of the year, their car had been driven 21,844 miles. How many miles did the Wong family drive their car during that year? (Lesson 1.7)

   Ⓐ 6,315 miles

   Ⓑ 7,295 miles

   Ⓒ 7,305 miles

   Ⓓ 36,383 miles

4. Widget Company made 3,600 widgets in 4 hours. They made the same number of widgets each hour. How many widgets did the company make in one hour? (Lesson 4.4)

   Ⓐ 80

   Ⓑ 90

   Ⓒ 800

   Ⓓ 900

5. Tyler is thinking of a number that is divisible by 2 and by 3. By which of the following numbers must Tyler's number also be divisible? (Lesson 5.2)

   Ⓐ 6

   Ⓑ 8

   Ⓒ 9

   Ⓓ 12

6. Jessica drew a circle divided into 8 equal parts. She shaded 6 of the parts. Which fraction is equivalent to the part of the circle that is shaded? (Lesson 6.1)

   Ⓐ $\frac{2}{3}$

   Ⓑ $\frac{3}{4}$

   Ⓒ $\frac{10}{16}$

   Ⓓ $\frac{12}{18}$