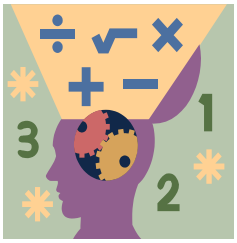


Homework

Hello Scholars. We will begin Chapter 6 this week, focusing on fraction equivalence and comparison. Scholars will learn how to generate equivalent fractions, write fractions in simplest form and find common denominators for fractions. There will be a **Quiz reviewing 6.1 – 6.5 on Monday October 22, 2018** . Please use the homework as a review.

Think Central Information

Scholars have access to Think Central assignments and the GO MATH! Student Interactive Book to review Chapter 6. https://www-k6.thinkcentral.com/ePC/start.do

I-Ready - Each scholar has an individualized weekly goal due on Sunday.

The 4th Grade Mathematics Curriculum depends on a strong foundation in multiplication and division. The remaining chapters require students to be fluent in all multiplication and division facts. Fluency in multiplication and division facts,1 through 9, is essential for your success. Please use Reflex Math to reinforce your facts, https://www.reflexmath.com, Sumdog (www.sumdog.com) , or www.multiplication.com (to focus on individual facts).

Notes

Scholars MUST prove and show all their work. If additional space is needed, please feel free to attach lined paper. Failure to show your work will result in a lower grade. Please complete the homework to the best of your abilities.

Monday	October 15th	– 6.1 & Page 114 (2 pages)
Tuesday	October 16th	– 6.2 & Page 116 (2 pages)
Wednesday	October 17th	– 6.3 & Page 118 (2 pages)
Thursday	October 18th	– 6.4 & Page 120 (2 pages)
Friday	October 19th	– 6.5 & Page 122 (2 pages)

Homework will be checked daily in class. Completed homework packets are due on October 22nd, 2018.

Monday October 15th	Tuesday October 16th	Wednesday October 17th	Thursday October 18th	Friday October 19th

Name:_____ Section: _____

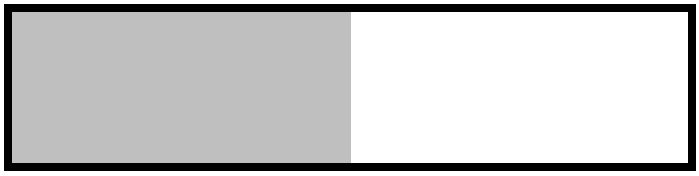
Name_____ Date _____

Problem Solving 6.1

Problem Solving – Equivalent Fractions

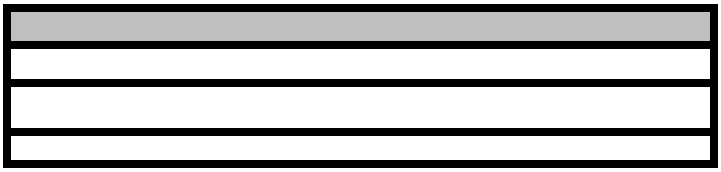
Read and Solve.

1. Use the model to write an equivalent fraction.



$\frac{1}{2}$ =

2. Use the model to write an equivalent fraction.



$\frac{1}{4}$ =

3. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{4}{100}$ $\frac{1}{25}$

4. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{2}{12}$ $\frac{1}{6}$

5. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{8}{10}$ $\frac{3}{5}$

6. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{4}{6}$ $\frac{7}{12}$

7. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{3}{24}$ $\frac{1}{8}$

8. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{4}{6}$ $\frac{2}{3}$

9. Christian finished $\frac{6}{9}$ of his science project, Gaby finished $\frac{1}{3}$ of her project and David finished $\frac{4}{12}$ of his project. Which two students finished the same amount?

10. Olga's bakery is divided into 10 equal sections. She puts cookies in 6 of the bakery displays. Write two fractions that are equivalent to the cookies in the bakery.

11. Michelle used 2 fifth-size parts to model $\frac{2}{5}$. Anna use more parts to model an equivalent fraction. How many fifth-size parts did Anna use?

PARCC TEST PREP

Lesson Check (MACC.4.NF.1.1)

1. A rectangle is divided into 8 equal parts. Two parts are shaded. Which fraction is equivalent to the shaded area of the rectangle?

Ⓐ $\frac{1}{4}$

Ⓑ $\frac{1}{3}$

Ⓒ $\frac{2}{6}$

Ⓓ $\frac{3}{4}$

2. Jeff uses 3 fifth-size strips to model $\frac{3}{5}$. He wants to use tenth-size strips to model an equivalent fraction. How many tenth-size strips will he need?

Ⓐ 10

Ⓑ 6

Ⓒ 5

Ⓓ 3

Spiral Review (MACC.4.OA.1.3, MACC.4.OA.2.4, MACC.4.NBT.2.5, MACC.4.NBT.2.6)

3. Cassidy places 40 stamps on each of 8 album pages. How many stamps does she place in all? **(Lesson 2.3)**

Ⓐ 300

Ⓑ 320

Ⓒ 360

Ⓓ 380

4. Maria and 3 friends have 1,200 soccer cards. If they share the soccer cards equally, how many will each person receive? **(Lesson 4.4)**

Ⓐ 30

Ⓑ 40

Ⓒ 300

Ⓓ 400

5. Six groups of students sell 162 balloons at the school carnival. There are 3 students in each group. If each student sells the same number of balloons, how many balloons does each student sell? **(Lesson 4.12)**

Ⓐ 9

Ⓑ 18

Ⓒ 27

Ⓓ 54

6. Four students each made a list of prime numbers.
Eric: 5, 7, 17, 23
Maya: 3, 5, 13, 17
Bella: 2, 3, 17, 19
Jordan: 7, 11, 13, 21
Who made an error and included a composite number? **(Lesson 5.5)**

Ⓐ Eric

Ⓑ Maya

Ⓒ Bella

Ⓓ Jordan

© Houghton Mifflin Harcourt Publishing Company

Name_____ Date _____

Problem Solving 6.2

Problem Solving – Equivalent Fractions

Read and Solve.

1. Write two equivalent fractions for each.

   $\frac{5}{8}$ =

2. Write two equivalent fractions for each

   $\frac{1}{3}$ =

3. Write two equivalent fractions for each.

   $\frac{2}{5}$ =

4. Write two equivalent fractions for each

   $\frac{3}{10}$ =

5. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{3}{6}$ $\frac{50}{100}$

6. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{2}{12}$ $\frac{5}{20}$

7. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{3}{4}$ $\frac{12}{16}$

8. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{3}{9}$ $\frac{4}{12}$

9. Chloe finished $\frac{6}{9}$ of her homework. Write two equivalent fractions that show how much homework Chloe finished.

10. Ingrid ate 20 ounces of ice cream. Five ounces were chocolate; the rest were vanilla. Write two equivalent fractions to the show how much ice cream is chocolate.

11. Martha needs $\frac{1}{4}$ yard of yarn to finish knitting her scarf. Write two equivalent fractions that show how much yarn Martha needs.

PARCC TEST PREP

Lesson Check (MACC.4.NF.1.1)

1. Jessie colored a poster. She colored $\frac{2}{5}$ of the poster red. Which fraction is equivalent to $\frac{2}{5}$?

Ⓐ $\frac{4}{10}$ Ⓒ $\frac{4}{5}$

Ⓑ $\frac{7}{10}$ Ⓓ $\frac{2}{2}$

2. Marcus makes a punch that is $\frac{1}{4}$ cranberry juice. Which two fractions are equivalent to $\frac{1}{4}$?

Ⓐ $\frac{2}{5}, \frac{3}{12}$ Ⓒ $\frac{3}{4}, \frac{6}{8}$

Ⓑ $\frac{2}{8}, \frac{4}{12}$ Ⓓ $\frac{2}{8}, \frac{3}{12}$

Spiral Review (MACC.4.OA.1.3, MACC.4.OA.3.5, MACC.4.NBT.2.5)

3. An electronics store sells a large flat screen television for $\$1{,}699$. Last month, the store sold 8 of these television sets. About how much money did the store make on the television sets? **(Lesson 2.4)**

Ⓐ $\$160{,}000$

Ⓑ $\$16{,}000$

Ⓒ $\$8{,}000$

Ⓓ $\$1{,}600$

4. Matthew has 18 sets of baseball cards. Each set has 12 cards. About how many baseball cards does Matthew have in all? **(Lesson 3.2)**

Ⓐ 300

Ⓑ 200

Ⓒ 150

Ⓓ 100

5. Diana had 41 stickers. She put them in 7 equal groups. She put as many as possible in each group. She gave the leftover stickers to her sister. How many stickers did Diana give to her sister? **(Lesson 4.3)**

Ⓐ 3

Ⓑ 4

Ⓒ 5

Ⓓ 6

6. Christopher wrote the number pattern below. The first term is 8.

8, 6, 9, 7, 10, …

Which is a rule for the pattern? **(Lesson 5.6)**

Ⓐ Add 2, add 3.

Ⓑ Add 6, subtract 3.

Ⓒ Subtract 6, add 3.

Ⓓ Subtract 2, add 3.

© Houghton Mifflin Harcourt Publishing Company

Name_____ Date _____

Problem Solving 6.3

Problem Solving – Simplest Form

Read and Solve.

1. Write the fraction in simplest form.

   $\frac{6}{8}$ =

2. Write the fraction in simplest form.

   $\frac{8}{20}$ =

3. Write the fraction in simplest form.

   $\frac{25}{100}$=

4. Write the fraction in simplest form.

   $\frac{9}{15}$=

5. Write the fraction in simplest form.

   $\frac{8}{8}$=

6. Write the fraction in simplest form.

   $\frac{2}{6}$=

7. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{4}{12}$ $\frac{1}{4}$

8. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{2}{5}$ $\frac{12}{30}$

9. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{6}{10}$ $\frac{3}{5}$

10. Tell whether the fractions are equivalent. Write = or ≠.

    $\frac{3}{10}$ $\frac{9}{30}$

11. Zoe ate $\frac{4}{6}$ of the pizza. She said the amount she ate is in simplest form? Is her part of the pizza in simplest form? If not what is her part of the pizza in simplest form?

12. In 4E, 10 out of the 12 girls have brown hair. In simplest form, what fraction of the girls have brown hair?

13. Which fractions below are in simplest form? Select all that apply.

    a. $\frac{8}{10}$ c. $\frac{3}{8}$

    b. $\frac{2}{5}$ d. $\frac{1}{3}$

14. Which fractions below are in simplest form? Select all that apply.

    a. $\frac{5}{6}$ b. $\frac{10}{15}$

    c. $\frac{7}{14}$ d. $\frac{7}{8}$

PARCC TEST PREP

Lesson Check (MACC.4.NF.1.1)

1. Six out of the 12 members of the school choir are boys. In simplest form, what fraction of the choir is boys?

Ⓐ $\frac{1}{6}$

Ⓑ $\frac{6}{12}$

Ⓒ $\frac{1}{2}$

Ⓓ $\frac{12}{6}$

2. Which of the following fractions is in simplest form?

Ⓐ $\frac{5}{6}$

Ⓑ $\frac{6}{8}$

Ⓒ $\frac{8}{10}$

Ⓓ $\frac{2}{12}$

Spiral Review (MACC.4.OA.1.3, MACC.4.OA.2.4, MACC.4.NBT.2.5, MACC.4.NF.1.1)

3. Each of the 23 students in Ms. Evans' class raised $45 for the school by selling coupon books. How much money did the class raise in all? **(Lesson 3.5)**

Ⓐ $207

Ⓑ $225

Ⓒ $1,025

Ⓓ $1,035

4. Which pair of numbers below have 4 and 6 as common factors? **(Lesson 5.3)**

Ⓐ 12, 18

Ⓑ 20, 24

Ⓒ 28, 30

Ⓓ 36, 48

5. Bart uses $\frac{3}{12}$ cup milk to make muffins. Which fraction is equivalent to $\frac{3}{12}$? **(Lesson 6.2)**

Ⓐ $\frac{1}{4}$

Ⓑ $\frac{1}{3}$

Ⓒ $\frac{1}{2}$

Ⓓ $\frac{2}{3}$

6. Ashley bought 4 packages of juice boxes. There are 6 juice boxes in each package. She gave 2 juice boxes to each of 3 friends. How many juice boxes does Ashley have left? **(Lesson 2.12)**

Ⓐ 24

Ⓑ 22

Ⓒ 18

Ⓓ 12

© Houghton Mifflin Harcourt Publishing Company

Name_____ Date _____

Problem Solving 6.4

Problem Solving – Common Denominator

Read and Solve.

1. Write the fractions as a pair of fractions with common denominators.

$\frac{3}{4}$ and $\frac{1}{3}$

_____

2. Write the fractions as a pair of fractions with common denominators.

$\frac{1}{8}$ and $\frac{1}{2}$

_____

3. Write the fractions as a pair of fractions with common denominators.

$\frac{3}{10}$ and $\frac{2}{3}$

_____

4. Write the fractions as a pair of fractions with common denominators.

$\frac{3}{5}$ and $\frac{1}{4}$

_____

5. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{2}{6}$ $\frac{3}{9}$

6. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{1}{5}$ $\frac{5}{30}$

7. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{1}{6}$ $\frac{2}{12}$

8. Tell whether the fractions are equivalent. Write = or ≠.

$\frac{4}{10}$ $\frac{8}{20}$

9. Sofia ate $\frac{1}{3}$ of a pizza. Mia ate $\frac{1}{6}$ of the other pizza. What is the **least** number of parts into which both pizzas could be divided?

10. AUC painted $\frac{1}{5}$ of the school blue and $\frac{2}{3}$ of the school red. Write an equivalent for the red part **and** blue part of the school using a common denominator.

11. Which of the following is a common denominator of $\frac{1}{4}$ and $\frac{5}{6}$?

a. 8 c. 12
b. 15 d. 9

12. Which of the following is a common denominator of $\frac{3}{4}$ and $\frac{5}{8}$?

a. 8 c. 12
b. 15 d. 9

PARCC TEST PREP

Lesson Check (MACC.4.NF.1.1)

1. Which of the following is a common denominator of $\frac{1}{4}$ and $\frac{5}{6}$?

   Ⓐ 8

   Ⓑ 9

   Ⓒ 12

   Ⓓ 15

2. Two fractions have a common denominator of 8. Which of the following could be the two fractions?

   Ⓐ $\frac{1}{2}$ and $\frac{2}{3}$

   Ⓑ $\frac{1}{4}$ and $\frac{1}{2}$

   Ⓒ $\frac{3}{4}$ and $\frac{1}{6}$

   Ⓓ $\frac{1}{2}$ and $\frac{4}{5}$

Spiral Review (MACC.4.NBT.1.2, MACC.4.NBT.2.5, MACC.4.NBT.2.6, MACC.4.NF.1.1)

3. Which number is 100,000 more than seven hundred two thousand, eighty-three? (Lesson 1.2)

   Ⓐ 703,083

   Ⓑ 712,083

   Ⓒ 730,083

   Ⓓ 802,083

4. Aiden baked 8 dozen muffins. How many total muffins did he bake? (Lesson 2.10)

   Ⓐ 64

   Ⓑ 80

   Ⓒ 96

   Ⓓ 104

5. On a bulletin board, the principal, Ms. Gomez, put 115 photos of the fourth-grade students in her school. She put the photos in 5 equal rows. How many photos did she put in each row? (Lesson 4.11)

   Ⓐ 21

   Ⓑ 23

   Ⓒ 25

   Ⓓ 32

6. Judy uses 12 tiles to make a mosaic. Eight of the tiles are blue. What fraction, in simplest form, represents the tiles that are blue? (Lesson 6.3)

   Ⓐ $\frac{2}{3}$

   Ⓑ $\frac{2}{5}$

   Ⓒ $\frac{3}{4}$

   Ⓓ $\frac{12}{18}$

© Houghton Mifflin Harcourt Publishing Company

Name_____ Date _____

Problem Solving 6.5

Problem Solving – Find Equivalent Fractions

Read and Solve.

1. Write the fractions as a pair of fractions with common denominators.

   $\frac{3}{5}$ and $\frac{1}{3}$

   _____

2. Write two equivalent fractions.

   $\frac{1}{8}$ =

3. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{9}{12}$ $\frac{6}{8}$

4. Tell whether the fractions are equivalent. Write = or ≠.

   $\frac{5}{15}$ $\frac{10}{30}$

5. Ms. Diana has trays of paint for students in her art class. Each tray has 6 colors. One of the colors is pink. What fraction of the colors in 8 trays is pink?

6. Olivia is putting together goodie bags for her party. Each bag will have 8 gumballs and $\frac{3}{8}$ of the gumballs are red. What fraction of the gumballs in 5 bags are red?

7. Lorena is making a scarf. Each scarf will have 6 beads and she wants $\frac{2}{3}$ of the beads to be purple. What fraction of the beads in 15 scarves is purple? How many beads are not purple?

8. Isa is putting together snack bags for ASC. She put 10 cookies in each bag and $\frac{3}{10}$ of the cookies are Oreos. What fraction of the cookies in 4 bags are Oreos?

9. Eleni has boxes of books. Each box has 5 books and $\frac{2}{5}$ of the books are mysteries. If Eleni has 4 boxes, how many books are mysteries?

PARCC TEST PREP

Lesson Check (MACC.4.NF.1.1)

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 (MACC.4.OA.2.4, MACC.4.NBT.2.4, MACC.4.NBT.2.6, MACC.4.NF.1.1)

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)**

Ⓐ $\frac{2}{3}$

Ⓑ $\frac{3}{4}$

Ⓒ $\frac{10}{16}$

Ⓓ $\frac{12}{18}$

© Houghton Mifflin Harcourt Publishing Company