Tuesday, February 18, 2020

Name: _____ Section: ____

5th Grade American Math Homework

Chapter 6 (Part 1)

Dear Family,

Throughout the next few weeks, our math class will study the operations of addition and subtraction with fractions. The students will learn to identify and apply Least Common Denominators. You can expect to see homework that includes adding and subtracting mixed numbers.

	To be completed on:	✓
No School	Monday 2/17	
Lesson 6.1	Tuesday 2/18	
Lesson 6.2	Wednesday 2/19	
Lesson 6.5	Thursday 2/20	
Lesson 6.6	Friday 2/21	
*** IReady 2 lessons per week all scholars		

Vocabulary

common denominator A common multiple of two or more denominators

equivalent fraction Fraction that name the same amount or part

Least Common Multiple (LCM) or **Least Common Denominator**
The least number that is common multiple of two or more numbers / denominators.

Alexandra Georgiou

alexandra.georgiou@archimedean.org

Name _____

Addition with Unlike Denominators

Use fraction strips to find the sum. Write your answer in simplest form.

1. $\frac{1}{2} + \frac{3}{4}$

$\frac{1}{2} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4} = \frac{5}{4}$, or $1\frac{1}{4}$

$1\frac{1}{4}$

2. $\frac{1}{3} + \frac{1}{4}$

3. $\frac{3}{5} + \frac{1}{2}$

4. $\frac{3}{8} + \frac{1}{2}$

5. $\frac{1}{4} + \frac{5}{8}$

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

7. $\frac{1}{2} + \frac{2}{5}$

8. $\frac{2}{3} + \frac{1}{2}$

9. $\frac{7}{8} + \frac{1}{2}$

10. $\frac{5}{6} + \frac{1}{3}$

11. $\frac{1}{5} + \frac{1}{2}$

12. $\frac{3}{4} + \frac{3}{8}$

Problem Solving REAL WORLD

13. Brandus bought $\frac{1}{3}$ pound of ground turkey and $\frac{3}{4}$ pound of ground beef to make sausages. How many pounds of meat did he buy?

14. To make a ribbon and bow for a hat, Stacey needs $\frac{5}{6}$ yard of black ribbon and $\frac{2}{3}$ yard of red ribbon. How much total ribbon does she need?

Lesson Check

1. Hirva ate $\frac{5}{8}$ of a medium pizza. Elizabeth ate $\frac{1}{4}$ of the pizza. How much pizza did they eat altogether?

   Ⓐ $\frac{2}{4}$

   Ⓑ $\frac{6}{12}$

   Ⓒ $\frac{6}{8}$

   Ⓓ $\frac{7}{8}$

2. Bill ate $\frac{1}{4}$ pound of trail mix on his first break during a hiking trip. On his second break, he ate $\frac{1}{6}$ pound. How many pounds of trail mix did he eat during both breaks?

   Ⓐ $\frac{5}{6}$ pound

   Ⓑ $\frac{5}{12}$ pound

   Ⓒ $\frac{1}{3}$ pound

   Ⓓ $\frac{1}{5}$ pound

Spiral Review

3. In 782,341,693, which digit is in the ten thousands place? **(Lesson 1.1)**

   Ⓐ 2

   Ⓑ 4

   Ⓒ 8

   Ⓓ 9

4. Matt ran 8 laps in 1,256 seconds. If he ran each lap in the same amount of time, how many seconds did it take him to run 1 lap? **(Lesson 1.9)**

   Ⓐ 107 seconds

   Ⓑ 132 seconds

   Ⓒ 157 seconds

   Ⓓ 170 seconds

5. Gilbert bought 3 shirts for $15.90 each, including tax. How much did he spend? **(Lesson 4.3)**

   Ⓐ $5.30

   Ⓑ $35.70

   Ⓒ $37.70

   Ⓓ $47.70

6. Julia has 14 pounds of nuts. There are 16 ounces in one pound. How many ounces of nuts does she have? **(Lesson 1.7)**

   Ⓐ 224 ounces

   Ⓑ 124 ounces

   Ⓒ 98 ounces

   Ⓓ 30 ounces

Name _____

Subtraction with Unlike Denominators

Use fraction strips to find the difference. Write your answer in simplest form.

1. $\frac{1}{2} - \frac{1}{3}$

   $\frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$

   $\frac{1}{6}$

2. $\frac{3}{4} - \frac{3}{8}$

3. $\frac{7}{8} - \frac{1}{2}$

4. $\frac{1}{2} - \frac{1}{5}$

5. $\frac{2}{3} - \frac{1}{4}$

6. $\frac{4}{5} - \frac{1}{2}$

7. $\frac{3}{4} - \frac{1}{3}$

8. $\frac{5}{8} - \frac{1}{2}$

9. $\frac{7}{10} - \frac{1}{2}$

10. $\frac{9}{10} - \frac{2}{5}$

11. $\frac{5}{8} - \frac{1}{4}$

12. $\frac{2}{3} - \frac{1}{2}$

Problem Solving REAL WORLD

13. Amber had $\frac{3}{8}$ of a cake left after her party. She wrapped a piece that was $\frac{1}{4}$ of the original cake for her best friend. What fractional part did she have left for herself?

14. Wesley bought $\frac{1}{2}$ pound of nails for a project. When he finished the project, he had $\frac{1}{4}$ pound of the nails left. How many pounds of nails did he use?

Lesson Check

1. A meatloaf recipe calls for $\frac{7}{8}$ cup of bread crumbs for the loaf and the topping. If $\frac{3}{4}$ cup is used for the loaf, what fraction of a cup is used for the topping?

   Ⓐ $\frac{4}{4}$ cup

   Ⓑ $\frac{4}{8}$ cup

   Ⓒ $\frac{1}{4}$ cup

   Ⓓ $\frac{1}{8}$ cup

2. Hannah bought $\frac{3}{4}$ yard of felt for a project. She used $\frac{1}{8}$ yard. What fraction of a yard of felt did she have left over?

   Ⓐ $\frac{2}{8}$ yard

   Ⓑ $\frac{4}{8}$ yard

   Ⓒ $\frac{5}{8}$ yard

   Ⓓ $\frac{5}{4}$ yards

Spiral Review

3. Jasmine's race time was 34.287 minutes. Round her race time to the nearest tenth of a minute. **(Lesson 3.4)**

   Ⓐ 34.3 minutes

   Ⓑ 34.2 minutes

   Ⓒ 34.0 minutes

   Ⓓ 30.0 minutes

4. The Art Club is having a fund-raiser, and 198 people are attending. If 12 people can sit at each table, what is the least number of tables needed? **(Lesson 2.7)**

   Ⓐ 15

   Ⓑ 16

   Ⓒ 17

   Ⓓ 20

5. During the day, Sam spent $4.85 on lunch. He also bought 2 books for $7.95 each. At the end of the day, he had $8.20 left. How much money did he start with? **(Lesson 4.5)**

   Ⓐ $12.80

   Ⓑ $20.75

   Ⓒ $21.00

   Ⓓ $28.95

6. What is the product of 7.5 and 1,000? **(Lesson 4.1)**

   Ⓐ 0.0075

   Ⓑ 0.075

   Ⓒ 7,500

   Ⓓ 75,000

Name _____

Add and Subtract Fractions

Find the sum or difference. Write your answer in simplest form.

1. $\frac{1}{2} - \frac{1}{7}$

$\frac{1}{2} \rightarrow \frac{7}{14}$

$-\frac{1}{7} \rightarrow -\frac{2}{14}$

$\frac{5}{14}$

2. $\frac{7}{10} - \frac{1}{2}$ _____

3. $\frac{1}{6} + \frac{1}{2}$ _____

4. $\frac{5}{8} + \frac{2}{5}$ _____

5. $\frac{9}{10} - \frac{1}{3}$ _____

6. $\frac{3}{4} - \frac{2}{5}$ _____

7. $\frac{5}{7} - \frac{1}{4}$ _____

8. $\frac{7}{8} + \frac{1}{3}$ _____

9. $\frac{5}{6} + \frac{2}{5}$ _____

10. $\frac{1}{6} - \frac{1}{10}$ _____

11. $\frac{6}{11} - \frac{1}{2}$ _____

12. $\frac{5}{6} + \frac{3}{7}$ _____

Problem Solving REAL WORLD

13. Kaylin mixed two liquids for a science experiment. One container held $\frac{7}{8}$ cup and the other held $\frac{9}{10}$ cup. What is the total amount of the mixture?

_____

14. Henry bought $\frac{1}{4}$ pound of screws and $\frac{2}{5}$ pound of nails to build a skateboard ramp. What is the total weight of the screws and nails?

_____

Lesson Check

1. Lyle bought $\frac{3}{8}$ pound of red grapes and $\frac{5}{12}$ pound of green grapes. How many pounds of grapes did he buy?

   Ⓐ $\frac{19}{24}$ pound

   Ⓑ $\frac{2}{5}$ pound

   Ⓒ $\frac{1}{3}$ pound

   Ⓓ $\frac{1}{24}$ pound

2. Jennifer had a $\frac{7}{8}$-foot board. She cut off a $\frac{1}{4}$-foot piece that was for a project. In feet, how much of the board was left?

   Ⓐ $\frac{12}{8}$ feet

   Ⓑ $\frac{9}{8}$ feet

   Ⓒ $\frac{6}{8}$ foot

   Ⓓ $\frac{5}{8}$ foot

Spiral Review

3. Ivan has 15 yards of green felt and 12 yards of blue felt to make 3 quilts. If Ivan uses the same total number of yards for each quilt, how many yards does he use for each quilt? **(Lesson 1.9)**

   Ⓐ 4 yards

   Ⓑ 5 yards

   Ⓒ 9 yards

   Ⓓ 27 yards

4. Eight identical shirts cost a total of $\$152$. How much does one shirt cost? **(Lesson 2.2)**

   Ⓐ $\$2$

   Ⓑ $\$8$

   Ⓒ $\$19$

   Ⓓ $\$24$

5. Melissa bought a pencil for $\$0.34$, an eraser for $\$0.22$, and a notebook for $\$0.98$. Which is the most reasonable estimate for the amount Melissa spent? **(Lesson 3.7)**

   Ⓐ $\$1.60$

   Ⓑ $\$1.50$

   Ⓒ $\$1.40$

   Ⓓ $\$1.30$

6. The 12 members in Dante's hiking club shared 176 ounces of trail mix equally. How many ounces of trail mix did each member receive? **(Lesson 2.7)**

   Ⓐ 15 ounces

   Ⓑ $14\frac{2}{3}$ ounces

   Ⓒ 14 ounces

   Ⓓ 12 ounces

Name _____

Add and Subtract Mixed Numbers

Find the sum or difference. Write your answer in simplest form.

1. $3\frac{1}{2} - 1\frac{1}{5}$

$3\frac{1}{2} \rightarrow 3\frac{5}{10}$

$-1\frac{1}{5} \rightarrow -1\frac{2}{10}$

$2\frac{3}{10}$

_____

2. $2\frac{1}{3} + 1\frac{3}{4}$ _____

3. $4\frac{1}{8} + 2\frac{1}{3}$ _____

4. $5\frac{1}{3} + 6\frac{1}{6}$ _____

5. $2\frac{1}{4} + 1\frac{2}{5}$ _____

6. $5\frac{17}{18} - 2\frac{2}{3}$ _____

7. $6\frac{3}{4} - 1\frac{5}{8}$ _____

8. $5\frac{3}{7} - 2\frac{1}{5}$ _____

9. $4\frac{1}{8} + 2\frac{5}{12}$ _____

10. $6\frac{6}{7} - 2\frac{3}{4}$ _____

11. $5\frac{5}{6} - 2\frac{3}{4}$ _____

12. $2\frac{6}{25} - 1\frac{1}{10}$ _____

Problem Solving REAL WORLD

13. Jacobi bought $7\frac{1}{2}$ pounds of meatballs. He decided to cook $1\frac{1}{4}$ pounds and freeze the rest. How many pounds did he freeze?

_____

14. Jill walked $8\frac{1}{8}$ miles to a park and then $7\frac{2}{5}$ miles home. How many miles did she walk in all?

_____

Lesson Check

1. Ming has a goal to jog $4\frac{1}{2}$ miles each day. On Monday she jogged $5\frac{9}{16}$ miles. By how much did she exceed her goal for that day?

   Ⓐ $1\frac{1}{16}$ miles

   Ⓑ $1\frac{7}{16}$ miles

   Ⓒ $1\frac{8}{16}$ miles

   Ⓓ $1\frac{8}{14}$ miles

2. At the deli, Ricardo ordered $3\frac{1}{5}$ pounds of cheddar cheese and $2\frac{3}{4}$ pounds of mozzarella cheese. How many pounds of cheese did he order?

   Ⓐ $5\frac{19}{20}$ pounds

   Ⓑ $5\frac{17}{20}$ pounds

   Ⓒ $5\frac{4}{9}$ pounds

   Ⓓ $5\frac{4}{20}$ pounds

Spiral Review

3. The theater has 175 seats. There are 7 seats in each row. How many rows are there? **(Lesson 2.2)**

   Ⓐ 15

   Ⓑ 17

   Ⓒ 25

   Ⓓ 30

4. Over the first 14 days, 2,755 people visted a new store. About how many people visited the store each day? **(Lesson 2.5)**

   Ⓐ about 100

   Ⓑ about 150

   Ⓒ about 200

   Ⓓ about 700

5. Which number is 100 times as great as 0.3? **(Lesson 3.2)**

   Ⓐ 300

   Ⓑ 30

   Ⓒ 3

   Ⓓ 0.003

6. Mark said that the product of 0.02 and 0.7 is 14. Mark is wrong. Which product is correct? **(Lesson 4.8)**

   Ⓐ 0.014

   Ⓑ 0.14

   Ⓒ 1.4

   Ⓓ 14.0