

Take out your hw PAPER from last night and write the number of problems you completed at the top (8)



Read over Example 3 on page 81 and answer the Reflect #14 problem at the bottom.

On a separate sheet of paper in your Spiral/ Comp/or loose leaf, make 3 boxes. Copy problems 15, 16, 17 (pg 82) on the piece of paper and begin solving the problems.

Spiral Review 6 due tomorrow.

SR 5 corrections due tomorrow.

Quiz Tues 10/2 - Add/subtract Fractions

Sep 26-5:11 PM

Selected Response pg. 42

1. What is the least common multiple of 5 and 150?

- (A) 5
- (B) 50
- (C) 15
- (D) 150

2. Cy has 42 baseball cards and 70 football cards that he wants to group into packages. Each package will have the same number of cards, and each package will have the same numbers of baseball cards and football cards. How many packages will Cy make if he uses all of the cards?

- (A) 7
- (B) 10
- (C) 14
- (D) 21

Each pkg. will have 3 bc and 5 fc.
 $42 \div 14$ $70 \div 14$

GCF group

3. During a promotional event, a sporting goods store gave a free T-shirt to every 8th customer and a free water bottle to every 10th customer. Which customer was the first to get a free T-shirt and a free water bottle?

- (A) the 10th customer
- (B) the 20th customer
- (C) the 40th customer
- (D) the 80th customer

LCM

4. The table below shows the positions relative to sea level of four divers.

Kareem	Li	Maria	Tara
-8 ft	-10 ft	-9 ft	-7 ft

Which diver is farthest from the surface?

- (A) Kareem
- (B) Li
- (C) Maria
- (D) Tara

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5. What is the greatest common factor of 12 and 16?

- (A) 2
- (B) 4**
- (C) 12
- (D) 48

6. Which expression is equivalent to $27 + 15$?

- (A) $9 \times (3 + 5)$
- (B) $3 \times (9 + 15)$
- (C) $9 \times (3 + 15)$
- (D) $3 \times (9 + 5)$**

GCF $\times (+)$

7. During a science experiment, the temperature of a solution in Beaker 1 was 5 degrees below zero. The temperature of a solution in Beaker 2 was the opposite of the temperature in Beaker 1. What was the temperature in Beaker 2?

- (A) -5 degrees
- (C) 5 degrees**
- (B) 0 degrees
- (D) 10 degrees

Mini-Task

8. Tia is buying paper cups and plates. Cups come in packages of 12, and plates come in packages of 10. She wants to buy the same number of cups and plates, but plans to buy the least number of packages possible. How much should Tia expect to pay if each package of cups is \$3 and each package of plates is \$5? Explain.
 \$45; the LCM of 12 and 10 is 60, so she will have 60 cups, which is 5 packages, and 60 plates, which is 6 packages. The cups cost \$15 and the plates cost \$30, for a total of \$45.

Cups (pkgs 12) \$3
 Plates (pkgs. 10) \$5
 $60 \div 12 = 5 (\times 3) = \15
 $60 \div 10 = 6 (\times 5) = \30
 \$45

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Shape	+	
Operate	-	
Simplify		
S	-Common denominator (LCD) (LCM)	
O	Add or Subtract	
S	-Reduce -Write as a mixed #	

Sep 26-5:16 PM

EXAMPLE 3  FL 6.NS

Add $\frac{8}{15} + \frac{1}{6}$. Write the sum in simplest form.

STEP 1 Rewrite the fractions as equivalent fractions. Use the LCM of the denominators as the new denominator.

shape

$$\frac{8}{15} \rightarrow \frac{8 \times 2}{15 \times 2} \rightarrow \frac{16}{30} \quad \text{The LCM of 15 and 6 is 30.}$$

$$\frac{1}{6} \rightarrow \frac{1 \times 5}{6 \times 5} \rightarrow \frac{5}{30}$$

STEP 2 Add the numerators of the equivalent fractions. Then simplify.

operate

$$\frac{16}{30} + \frac{5}{30} = \frac{21}{30}$$

$$= \frac{21 \div 3}{30 \div 3}$$

$$= \frac{7}{10}$$

Simplify by dividing by the GCF. The GCF of 21 and 30 is 3.

Reflect

14. Can you also use the LCM of the denominators of the fractions to rewrite the difference $\frac{8}{15} - \frac{1}{6}$? What is the difference?

yes; $\frac{11}{30}$ $\frac{16}{30} - \frac{5}{30}$

Sep 27-9:36 AM

Add or subtract. Write each sum or difference in simplest form.

15. $\frac{5}{14} + \frac{1}{6} = \frac{11}{21}$ 

16. $\frac{5}{12} - \frac{3}{20} = \frac{4}{15}$ 

17. $\frac{5}{12} - \frac{3}{8} = \frac{1}{24}$ 

15. $\frac{5^3}{14^3} + \frac{1^7}{6^7}$

$$\frac{5}{14} + \frac{1}{6}$$

$$\frac{5 \cdot 3}{14 \cdot 3} + \frac{1 \cdot 7}{6 \cdot 7}$$

$$\frac{5}{22} + \frac{1}{42}$$

$$\frac{5 \cdot 2}{22 \cdot 2} + \frac{1 \cdot 1}{2 \cdot 21} = \frac{11}{21}$$

LCM
14 = 14, 28, 42
6(7) = 42

16. $\frac{5}{12} - \frac{3}{20}$

$$\frac{5 \cdot 5}{12 \cdot 5} - \frac{3 \cdot 3}{20 \cdot 3}$$

$$\frac{25}{60} - \frac{9}{60}$$

$$\frac{16}{60} \div \frac{4}{4} = \frac{4}{15}$$

LCM = 20, 40, 60
12(5) = 60

17. $\frac{5^2}{12^2} - \frac{3^3}{8^3}$

$$\frac{5}{12} - \frac{3}{8}$$

$$\frac{5 \cdot 2}{12 \cdot 2} - \frac{3 \cdot 3}{8 \cdot 3}$$

$$\frac{10}{24} - \frac{9}{24}$$

$$\frac{1}{24}$$

LCM
12 = 12, 24
8(3) = 24

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Homework - Worksheet 12 problems

You may work these problems on the ws if you have enough room.

Quiz over Adding and Subtracting Fractions will be next
Tuesday, 10/2.

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