

MATH ESSENTIALS UNIT 4

Fractions: Adding & Subtracting

Name _____ Date _____

PURPOSE

Learn to add and subtract fractions and mixed numbers.

HOW TO DO THIS COURSE: Do the steps in order. Initial and date each when done. Where there are two sign-off lines, get the step checked and initialed on the second line by another student, or if stated, by the instructor.

ESTIMATED TIME: 15 hours

BOOKS:

Math Essentials, Finding & Filling the Gaps or *Math Essentials Unit 4 Fractions: Adding & Subtracting*, Heron Books
Math Essentials, Exercise Answers, Heron Books

A. GETTING STARTED

1. READ: *Math Essentials, Unit 4 Fractions: Adding & Subtracting*, Establishing a Routine. _____
2. ACTIVITY: Do Review Exercise. **Instructor pass.** _____

B. FRACTIONS

1. READ: Chapter Fractions. _____
2. ACTIVITY: Do Fractions: Adding and Subtracting Worksheet, attached to the back of this learning guide.
Exercises. 18 problems missed _____

C. WRITING FRACTIONS IN THE SIMPLEST WAY

1. READ: Chapter Equivalent Fractions and Lowest Terms up to Exercise 1. _____

2. ACTIVITY: Do Exercise 1. 30 problems missed
If you missed any problems, or if you need or want more practice,
do Additional Exercises.

Additional Exercise. 35 problems missed

Instructor pass.

D. COMPARING FRACTIONS

1. READ: Chapter Comparing Fractions—Common Denominators up
to Exercise 2.

2. ACTIVITY: Do Exercise 2. 26 problems missed

If you missed any problems, or if you need or want more practice,
do Additional Exercises.

Additional Exercises. 30 problems missed

E. ADDING AND SUBTRACTING FRACTIONS AND MIXED NUMBERS

1. READ: Chapter Adding and Subtracting Fractions up to Exercise 3.

2. ACTIVITY: Do Exercise 3. 20 problems missed

If you missed any problems, or if you need or want more practice,
do Additional Exercises.

Additional Exercises. 27 problems missed

3. READ: Chapter Adding and Subtracting Mixed Numbers up to
Exercise 4. Do the steps for yourself on paper where it says to do that.

4. ACTIVITY: Do Exercise 4. 24 problems missed

If you missed any problems, or if you need or want more practice,
do Additional Exercises.

Additional Exercises. 32 problems missed

Instructor pass.

F. FINAL ACTIVITY

1. ACTIVITY: Do Final Unit Exercises. 7 problems missed

Instructor pass. _____

I have completed the steps of this course. I understand what I studied and can use it.

Student _____ Date _____

The student has completed the steps of this course and knows and can apply what was studied.

Instructor _____ Date _____

The student has passed the exam for this course.

Examiner _____ Date _____

FOR FACULTY

NOTE

Math Essentials, Instructor Manual includes a full list of program materials, where to get them and how to use them.

ADDITIONAL RESOURCES

Exam and answers

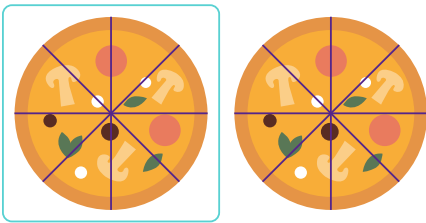
FRACTIONS: ADDING AND SUBTRACTING

WORKSHEET

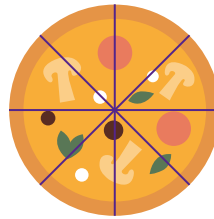
Name _____ Date started _____

For each drawing below, show the fraction by making a circle around the fraction in the drawing. The first four have been done for you.

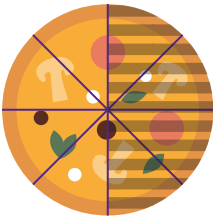
1. $\frac{1}{2}$ of the pizzas



6. $\frac{5}{8}$ of the pizza



2. $\frac{1}{2}$ of the pizza



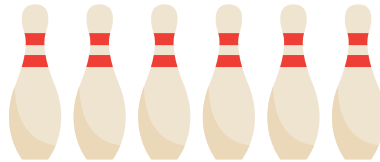
7. $\frac{2}{6}$ of the basketballs



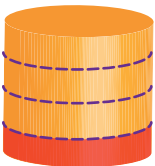
3. $\frac{1}{4}$ of the footballs



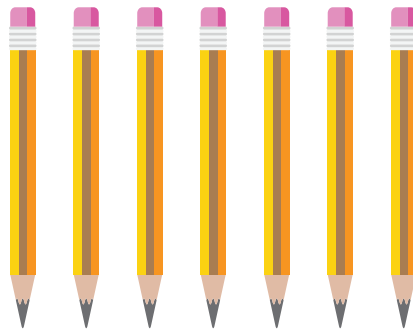
8. $\frac{5}{6}$ of the bowling pins



4. $\frac{1}{4}$ of the cup



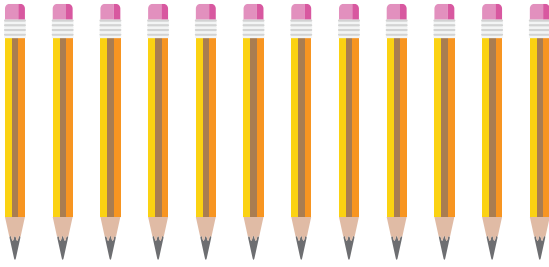
9. $\frac{2}{7}$ of the pencils



5. $\frac{5}{8}$ of the tennis balls

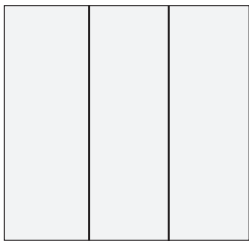


10. $\frac{5}{12}$ of the pencils

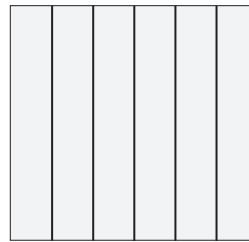


Show by shading in the fractions:

11. $\frac{2}{3}$ of the paper



12. $\frac{3}{6}$ of the paper



For each picture below, write down the numerator and the denominator of the fraction shown.

13. In the drawing below, what fraction is the shaded part? _____



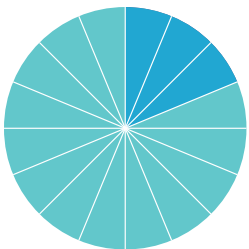
14. In the drawing above, what fraction is the unshaded part? _____

15. In the drawing below, what fraction is the circled part? _____



16. In the drawing above, what fraction is the uncircled part? _____

17. In the drawing below, what fraction is the shaded part? _____



18. In the drawing above, what fraction is the unshaded part? _____