

GRADE 10 ESSENTIAL UNIT X – PRIOR STUDIES – FRACTIONS

Name:_	
Date:	

ADDING AND SUBTRACTING FRACTIONS

Adding and subtracting fractions is sometimes more difficult than multiplying because you need to have the same denominator (ie: the same size slice)

These ones are easy since they are the same denominator.

Lesson 1 Addition and Subtraction

Add the numerators.

$$\frac{7}{8} + \frac{5}{8} = \frac{7+5}{8} = \frac{12}{8} = 1\frac{1}{2}$$
Use the same denominator.
$$\frac{+\frac{5}{8}}{\frac{12}{8}} = 1\frac{1}{2}$$
Change to simplest form.

Write each answer in simplest form.

1.
$$\frac{1}{5}$$
 $\frac{1}{5}$ \frac



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

$$+\frac{\overline{12}}{12}$$

4.
$$\frac{11}{12}$$
 $-\frac{3}{12}$

$$-\frac{7}{8}$$
 $-\frac{2}{8}$

Of course you should be drawing some of these, especially if teaching your niece! Show how 1/5th of a chocolate bar plus 2/5th of a chocolate bar equals 3/5th of a chocolate bar:



Lesson 1 Problem Solving

Show work! ↓ (Even if trivial!)

Solve. Write each answer in simplest form.

1. Preston drank $\frac{1}{4}$ of a jug of milk yesterday and $\frac{1}{4}$ of a jug of milk today. How much milk did he drink during these two days?

He drank $\underline{\hspace{1cm}}$ of a jug of milk.

2. Trina and Jamie have painted $\frac{3}{4}$ of a room. Jamie painted $\frac{1}{4}$ of the room. How much of the room did Trina paint?

Trina painted ______ of the room.



3.	Tom has two boxes of cookies that are each $\frac{3}{8}$ full. How much of a box of cookies does he have altogether?
	He has of a box of cookies.
4.	Sam looked in the fridge and found one carton of eggs that was $\frac{5}{12}$ full and one carton that was $\frac{7}{12}$ full. How much of a full carton does Sam have?
	Sam has carton.
5.	A television show has just begun and will last $\frac{5}{6}$ h. After $\frac{4}{6}$ h, what part of an hour remains of the television show?
	h remains of the television show?
6.	Tess jogged $\frac{3}{4}$ h before work. That same day she jogged $\frac{3}{4}$ h after work. How long did she jog in all that day?
	She joggedh that day.
7.	Max spent $\frac{5}{6}$ h typing. He spent $\frac{1}{6}$ h proofreading his typing. How long did he spend typing and proofreading in all?
	He spenth typing and proofreading.
8.	In problem 7, how much longer did he spend typing than proofreading?
	He spenth more typing than proofreading.