2ACE Exercises 5, 6, 14-17

5. Rico and his friend eat part of a pan of lasagna (see below). Rico eats $\frac{1}{16}$ of the lasagna, and his friend eats $\frac{1}{32}$ of the lasagna. How much of the lasagna is left?

1 32				

6. Suppose you eat $\frac{3}{4}$ of a pizza and then eat $\frac{1}{8}$ of another pizza of the same size. How much of a whole pizza do you eat altogether?



HINT Show (shade) $\frac{3}{4}$ and $\frac{1}{8}$ on the pizzas at the left.

(HINT) $\frac{1}{32}$ has been filled in, fill in $\frac{1}{16}$.

For Exercises 14–17, determine which sum is greater. Show your work.

14. $\frac{2}{3} + \frac{5}{6}$ or $\frac{3}{4} + \frac{4}{5}$

Find common denominators.

 $\frac{2}{3} = \frac{4}{6} \qquad \qquad \frac{3}{4} = \frac{15}{20} \& \frac{4}{5} = \frac{16}{20}$

Add.

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 $\frac{4}{6} + \frac{5}{6} = \frac{9}{6} \qquad \qquad \frac{15}{20} + \frac{16}{20} = \frac{31}{20}$

Because you want to compare $\frac{9}{6}$ and $\frac{31}{20}$, you will want to find a **common multiple** of these two numbers. Both 6 and 20 are factors of 60 (6 × 10 = 60 and 20 × 3 = 60). 60 is the **smallest common multiple** of 6 and 20.

You want to rewrite the sums you are comparing $(\frac{9}{6} \text{ and } \frac{31}{20})$ using the common denominator of 60.

$$\frac{9}{6} = \frac{90}{60} (6 \times 10 = 60 \text{ and } 9 \times 10 = 90)$$
$$\frac{31}{20} = \frac{93}{60} (20 \times 3 = 60 \text{ and } 31 \times 3 = 93)$$

_____Date _____Class

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Investigation 2
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Bits and Pieces II

	When you writ $\frac{90}{60}$ and $\frac{93}{60}$. Then compare	te the sums in terms $\frac{90}{60}$ and $\frac{93}{60}$. $\frac{93}{60}$ is large	of their comm ger.	on denominator	you have	
	So, the sum of	$\frac{3}{4} + \frac{4}{5}$ is larger.				
15	$\frac{7}{6} - \frac{2}{3}$	or	$\frac{3}{5} - \frac{5}{10}$			
16	$\frac{1}{4} + \frac{5}{6}$	or	$\frac{1}{5} + \frac{7}{8}$			
17	$\frac{1}{16} + \frac{1}{12}$	or	$\frac{5}{4} - \frac{4}{5}$			

2ACE Exercises 5, 6, 14–17 (continued) Investigation 2

Bits and Pieces II