$\qquad$ Date $\qquad$ Class $\qquad$

## 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?

| $\frac{1}{32}$ |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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

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.

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

Add.

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

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 $60(6 \times 10=60$ and $20 \times 3=60$ ). 60 is the smallest common multiple of 6 and 20 .

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

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

$\qquad$ Date $\qquad$ Class $\qquad$

## 2ACE Exercises 5, 6, 14-17 (continued)

When you write the sums in terms of their common denominator you have $\frac{90}{60}$ and $\frac{93}{60}$.
Then compare $\frac{90}{60}$ and $\frac{93}{60} \cdot \frac{93}{60}$ is larger.
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. $\frac{1}{4}+\frac{5}{6} \quad$ or $\quad \frac{1}{5}+\frac{7}{8}$
17. $\frac{1}{16}+\frac{1}{12}$
or
$\frac{5}{4}-\frac{4}{5}$

