

## Estimating Answers


So far in this book, you have found exact answers. Sometimes an **approximate** answer or an **estimate** is enough. Review “Thinking About the Size of Fractions” on page 14. When you add two fractions, think about the sum. Is the sum equal to one whole ( $= 1$ ), less than one whole ( $< 1$ ) or more than one whole ( $> 1$ )? Study these examples carefully.

### EXAMPLES

$$\frac{1}{2} + \frac{1}{2}, \text{ the sum is } 1. \qquad \frac{1}{2} + \frac{3}{6} = 1$$


$$\frac{1}{2} + \text{a fraction that is less than } \frac{1}{2}, \text{ the sum is less than } 1. \qquad \frac{1}{2} + \frac{2}{5} < 1$$

$$\frac{1}{2} + \text{a fraction that is more than } \frac{1}{2}, \text{ the sum is more than } 1. \qquad \frac{1}{2} + \frac{4}{5} > 1$$

 In each box, write  $<$ ,  $>$ , or  $=$  to make the statement true.

$$1. \quad \frac{5}{16} + \frac{1}{2} \square 1 \qquad \frac{4}{8} + \frac{1}{2} \square 1 \qquad \frac{1}{2} + \frac{9}{10} \square 1 \qquad \frac{3}{6} + \frac{2}{4} \square 1$$

$$2. \quad \frac{1}{2} + \frac{3}{8} \square 1 \qquad \frac{2}{3} + \frac{5}{6} \square 1 \qquad \frac{9}{10} + \frac{2}{3} \square 1 \qquad \frac{3}{8} + \frac{4}{9} \square 1$$


 In problems 3 through 6, choose the two consecutive numbers that the answer comes between.

3. Is  $1\frac{1}{2} + 2\frac{3}{4}$  between 3 and 4 or between 4 and 5?

4. Is  $4\frac{1}{8} + 5\frac{1}{3}$  between 9 and 10 or between 10 and 11?

5. Is  $3\frac{2}{3} + 7\frac{5}{6}$  between 10 and 11 or between 11 and 12?

6. Is  $2\frac{3}{10} + 4\frac{1}{2}$  between 6 and 7 or between 7 and 8?

 In problems 7 through 10, write the two consecutive numbers that the answer comes between.

7.  $4\frac{7}{8} + 3\frac{9}{10}$  is between \_\_\_\_\_ and \_\_\_\_\_.

8.  $2\frac{1}{6} + 5\frac{1}{2}$  is between \_\_\_\_\_ and \_\_\_\_\_.

9.  $5\frac{2}{9} + 1\frac{3}{10}$  is between \_\_\_\_\_ and \_\_\_\_\_.

10.  $9\frac{1}{2} + 6\frac{5}{7}$  is between \_\_\_\_\_ and \_\_\_\_\_.

For more practice, find the exact answers for the problems above.