

Key

Grade 5 Module 3 End-of-Module Study Guide

1. Add or subtract. When possible, write your answer as a mixed number and simplify your answer if possible.

a. $5\frac{4}{5} - 2\frac{2}{3}$

5, 10, 15
3, 6, 9, 12, 15
 $= 5\left(\frac{4 \times 3}{5 \times 3}\right) - 2\left(\frac{2 \times 5}{3 \times 5}\right)$
 $= 5\frac{12}{15} - 2\frac{10}{15}$
 $= 3\frac{2}{15}$

c. $\frac{2}{3} + 1\frac{1}{10}$

3, 6, 9, 12, 15, 18, 21, 24, 27, 30
10, 20, 30
 $= \left(\frac{2 \times 10}{3 \times 10}\right) + \left(\frac{1 \times 3}{10 \times 3}\right)$
 $= \frac{20}{30} + \frac{3}{30}$
 $= 1\frac{23}{30}$

b. $\frac{3}{8} + \frac{3}{7}$

4, 16, 24, 32, ... 56
7, 14, 21, 28, ... 56
 $= \left(\frac{3 \times 7}{8 \times 7}\right) + \left(\frac{3 \times 8}{7 \times 8}\right)$
 $= \frac{21}{56} + \frac{24}{56}$
 $= \frac{45}{56}$

d. $8\frac{3}{4} - 5\frac{5}{6}$

4, 8, 12, 16, ...
6, 12
 $= 8\left(\frac{3 \times 3}{4 \times 3}\right) - 5\left(\frac{5 \times 2}{6 \times 2}\right)$
 $= 8\frac{9}{12} - 5\frac{10}{12}$
 $= 7\frac{21}{12} - 5\frac{10}{12}$
 $= 2\frac{11}{12}$

2. Is the expression greater than 1 or less than 1? Circle the correct answer for each expression.

a. $\frac{1}{2} + \frac{5}{12}$



greater than 1

less than 1

b. $\frac{3}{8} + \frac{4}{9}$

greater than 1

less than 1

3. Is the expression greater than $\frac{1}{2}$ or less than $\frac{1}{2}$? Circle the correct answer for each expression.

a. $\frac{1}{4} + \frac{2}{3}$

greater than $\frac{1}{2}$

less than $\frac{1}{2}$

b. $\frac{3}{7} - \frac{1}{8}$

greater than $\frac{1}{2}$

less than $\frac{1}{2}$

