Lesson 6.1

Equivalent Fractions

Use the model to write an equivalent fraction.

1. \[
\begin{array}{c}
\text{\(\frac{4}{6}\)} \\
\text{\(=\)} \\
\text{\(\frac{2}{3}\)}
\end{array}
\]

2. \[
\begin{array}{c}
\text{\(\frac{3}{4}\)} \\
\text{\(=\)} \\
\text{\(\frac{6}{8}\)}
\end{array}
\]

Tell whether the fractions are equivalent. Write = or ≠.

3. \[
\begin{array}{c}
\frac{8}{10} \bigcirc \frac{4}{5}
\end{array}
\]

4. \[
\begin{array}{c}
\frac{1}{2} \bigcirc \frac{7}{12}
\end{array}
\]

5. \[
\begin{array}{c}
\frac{3}{4} \bigcirc \frac{8}{12}
\end{array}
\]

6. \[
\begin{array}{c}
\frac{2}{3} \bigcirc \frac{4}{6}
\end{array}
\]

7. \[
\begin{array}{c}
\frac{5}{8} \bigcirc \frac{4}{10}
\end{array}
\]

8. \[
\begin{array}{c}
\frac{2}{6} \bigcirc \frac{4}{12}
\end{array}
\]

9. \[
\begin{array}{c}
\frac{20}{100} \bigcirc \frac{1}{5}
\end{array}
\]

10. \[
\begin{array}{c}
\frac{5}{6} \bigcirc \frac{9}{10}
\end{array}
\]

Problem Solving

11. Jamal finished \(\frac{5}{6}\) of his homework. Margaret finished \(\frac{3}{4}\) of her homework, and Steve finished \(\frac{10}{12}\) of his homework. Which two students finished the same amount of homework?

12. Sophia’s vegetable garden is divided into 12 equal sections. She plants carrots in 8 of the sections. Write two fractions that are equivalent to the part of Sophia’s garden that is planted with carrots.
Lesson Check (4.NF.1)

1. A rectangle is divided into 8 equal parts. Two parts are shaded. What fraction is equivalent to the shaded area of the rectangle?

2. Jeff uses 3 fifth-size strips to model $\frac{3}{5}$. He wants to use tenth-size strips to model an equivalent fraction. How many tenth-size strips will he need?

Spiral Review (4.OA.3, 4.OA.4, 4.NBT.5, 4.NBT.6)

3. Cassidy places 40 stamps on each of 8 album pages. How many stamps does she place?

4. Maria and 3 friends have 1,200 soccer cards. If they share the soccer cards equally, how many will each person receive?

5. Six groups of students sell 162 balloons at the school carnival. There are 3 students in each group. If each student sells the same number of balloons, how many balloons does each student sell?

6. Four students each made a list of prime numbers.
   - Eric: 5, 7, 17, 23
   - Maya: 3, 5, 13, 17
   - Bella: 2, 3, 17, 19
   - Jordan: 7, 11, 13, 21

Who made an error and included a composite number? Write the composite number from his or her list.