

**Lesson**  
**2.3**
**Enrichment and Extension**
**Finding a Combination**

9, 9

2, 7

3, 5

4, 6

1, 4

5, 7

3, 6

3, 8

You keep money in a locked box and do not want to write the combination down to open the box. So, you create the problems below and numbers above to hide the combination. Choose a set of numbers and fill in the boxes to make each equation true. Each set of numbers will be used once.

1.  $\frac{\boxed{\phantom{00}}}{2} \div \frac{3}{8} = \frac{\boxed{\phantom{00}}}{3}$

2.  $\frac{\boxed{\phantom{00}}}{4} \div 2 = \frac{\boxed{\phantom{00}}}{8}$

3.  $\frac{\boxed{\phantom{00}}}{2} \div \frac{1}{4} = \boxed{\phantom{00}}$

4.  $\frac{5}{14} \div \frac{2}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{4}$

5.  $\frac{1}{\boxed{\phantom{00}}} \div \frac{3}{8} = \frac{1}{\boxed{\phantom{00}}}$

6.  $\frac{7}{2} \div \boxed{\phantom{00}} = \frac{1}{\boxed{\phantom{00}}}$

7.  $\frac{5}{9} \div \frac{2}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{6}$

8.  $\frac{1}{\boxed{\phantom{00}}} \div \frac{3}{2} = \frac{1}{\boxed{\phantom{00}}}$

9. Starting at Exercise 1 and ending at Exercise 8, write down each number that was missing from the right side of the equation. Place a dash after every second digit. This series of two digit numbers will unlock the box. What is the combination to the box?