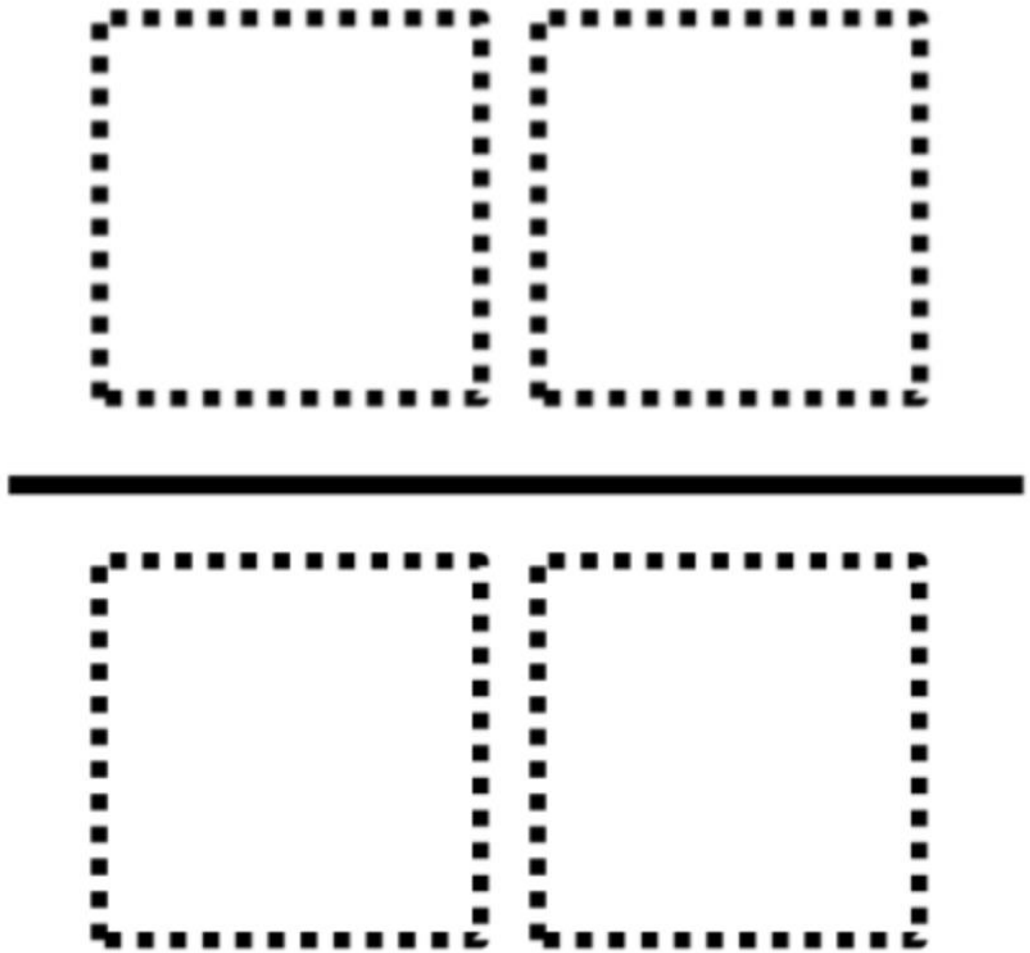
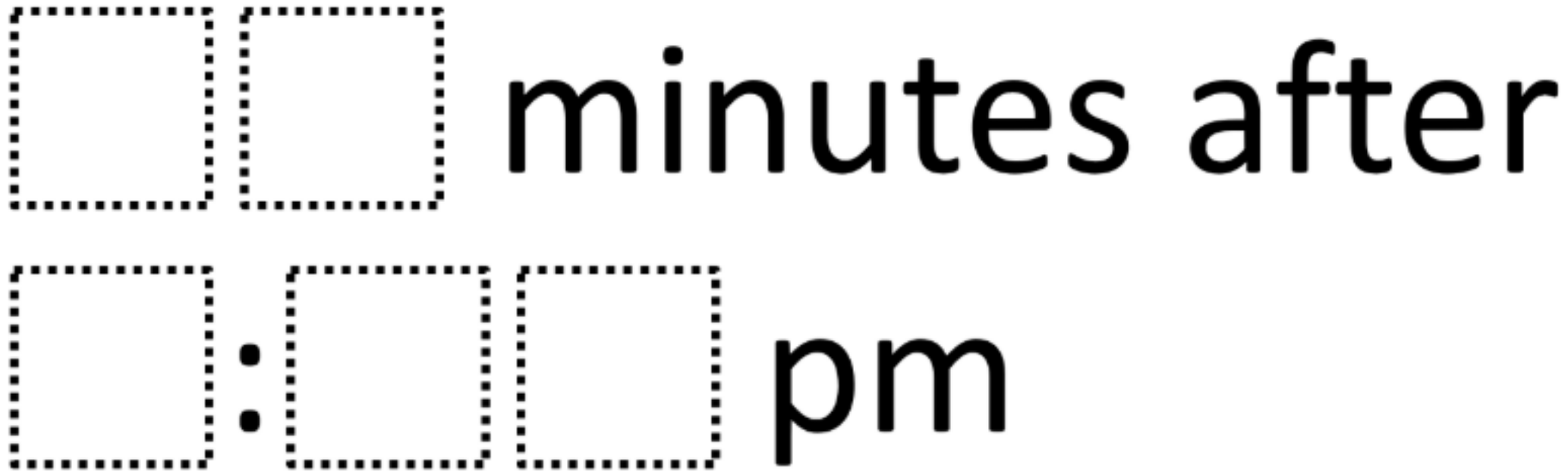
CLOSEST TO ONE

Directions: Using the digits 1 to 9 at most one time each, fill in the boxes to create a fraction as close to one as possible.



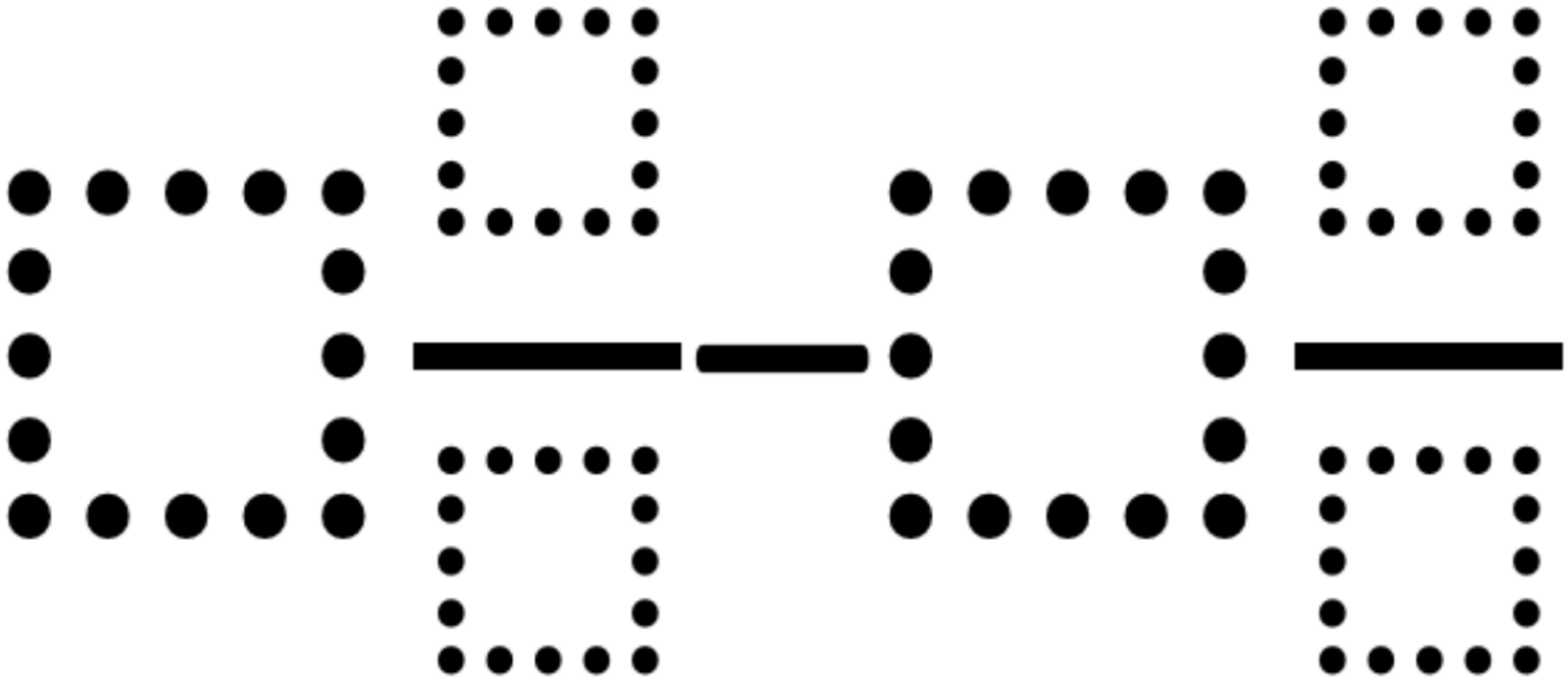
OPERATIONS WITH TIME

Directions: Use the digits 1 to 9, at most one time each, to fill in the boxes to make the latest possible time.



SUBTRACTING MIXED NUMBERS

Directions: Using the digits 1 to 9 at most one time each, place a digit in each box to make the least possible difference.



FACTORING QUADRATICS

Directions: Fill in the blanks with **integers** so that the quadratic expression is factorable.

1. $x^2 + \_\_\_\_ x + 4$
2. $x^2 + \_\_\_\_ x - 12$
3. $3x^2 + \_\_\_\_ x + 8$
4. $2x^2 + 3x + \_\_\_\_\_$

TASK

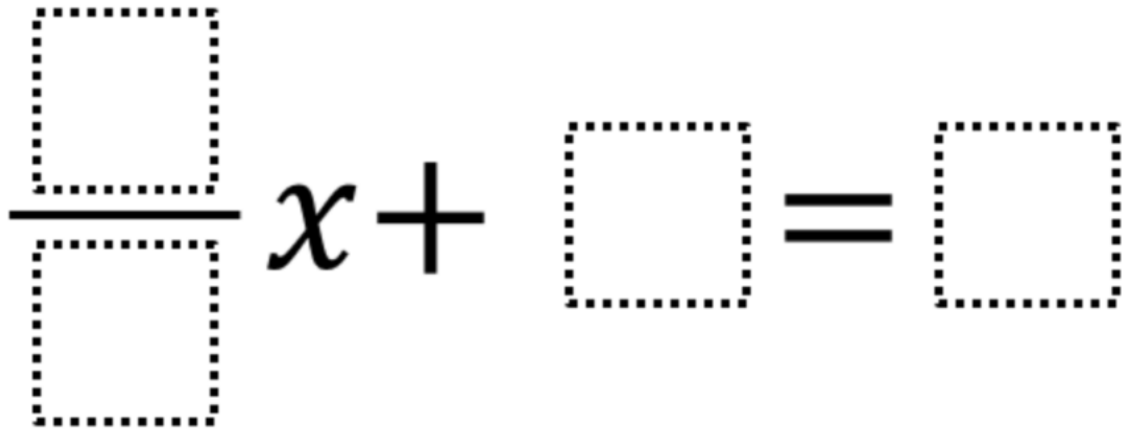
In each box, fill in an integer from -9 to 9 such that all three points are on the parabola with the equation $y = x^2$.

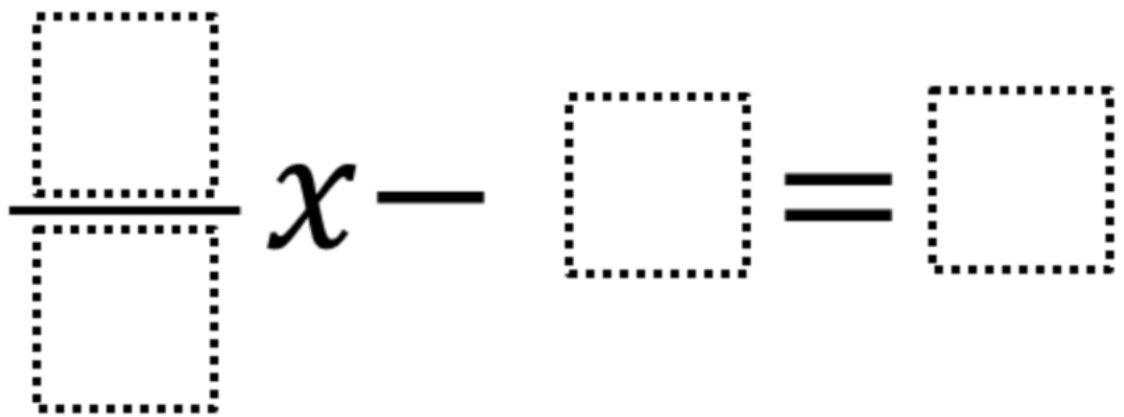
Each of the integers from -9 to 9 may only be used up to once.

$$\left(\frac{\square}{\square}\middle|\frac{\square}{\square}\right) \qquad (\square.\square|\square.\square\square) \qquad \left(\square\sqrt{\square}\middle|\square\square\right)$$

EXPLORING EQUATIONS

Directions: For each problem below, use the digits 1 to 9 at most one time each, to fill in the boxes to find the the greatest value for x that you can.





OPERATIONS WITH TIME

Directions: Use the digits 1 to 9, at most one time each, to fill in the boxes to make the latest possible time.