

Name _____

Date _____

Puzzle 1 · Hard

$$\begin{array}{rcl}
 \boxed{34} & + & \boxed{} = \boxed{} \\
 & + & + \\
 \boxed{90} & - & \boxed{58} = \boxed{} \\
 - & = & = \\
 \boxed{8} & + & \boxed{} = \boxed{97} \\
 = & & \\
 \boxed{100} & - & \boxed{} = \boxed{} \\
 \div & & \div \\
 \boxed{} & - & \boxed{} = \boxed{} \\
 = & & = \\
 \boxed{10} & \div & \boxed{5} = \boxed{}
 \end{array}$$

Numbers to place: 1 2 9 10 18 31 32 65 82 89

Puzzle 2 · Hard

$$\begin{array}{rcl}
 \boxed{59} & - & \boxed{3} = \boxed{} \\
 + & + & \div \\
 \boxed{} & \boxed{} \div \boxed{8} & = \boxed{11} \\
 = & = & = \div \\
 \boxed{} & - & \boxed{} = \boxed{7} \quad \boxed{} \\
 & & = \\
 \boxed{90} & - & \boxed{} = \boxed{} \\
 - & - & \\
 \boxed{} & - & \boxed{47} = \boxed{15} \\
 = & = & \\
 \boxed{} & + & \boxed{} = \boxed{70}
 \end{array}$$

Numbers to place: 1 11 28 39 42 56 62 88 89 91 98

Name _____

Date _____

Puzzle 3 · Hard

$$\begin{array}{ccccccc}
 & & \square & + & \square & = & \square \\
 & & \div & & \div & & \\
 \square & \div & \square & = & \square & & \square & - & \square & = & \square \\
 + & & = & & = & & - & & \div \\
 \square & - & \square & = & \square & & \square & \times & \square & = & \square \\
 = & & & & = & & = & & = \\
 \square & & & & \square & - & \square & = & \square \\
 & & & & - & & & & \\
 & & & & \square & & & & \\
 & & & & = & & & & \\
 & & & & \square & & & & \\
 & & & & 13 & & & &
 \end{array}$$

Numbers to place: 1 2 2 3 6 7 11 18 21 22 86 92

Puzzle 4 · Hard

$$\begin{array}{ccccccc}
 \square & \div & \square & = & \square \\
 + & & & & \\
 \square & + & \square & = & \square \\
 = & & - & & - \\
 \square & & \square & - & \square & = & \square \\
 + & & = & & = \\
 \square & & \square & \times & \square & = & \square \\
 = & & + & & & & \\
 \square & - & \square & = & \square \\
 = & & & & \\
 \square & \div & \square & = & \square
 \end{array}$$

Numbers to place: 1 1 2 5 9 18 87 93 95 98 99

Answers

Puzzle 1 · Hard

$$\begin{array}{rcl} \boxed{34} & + & \boxed{31} = \boxed{65} \\ & + & + \\ \boxed{90} & - & \boxed{58} = \boxed{32} \\ & - & = = \\ \boxed{8} & + & \boxed{89} = \boxed{97} \\ & = & \\ \boxed{100} & - & \boxed{82} = \boxed{18} \\ & \div & \div \\ \boxed{10} & - & \boxed{1} = \boxed{9} \\ & = & = \\ \boxed{10} & \div & \boxed{5} = \boxed{2} \end{array}$$

Puzzle 2 · Hard

$$\begin{array}{rcl} \boxed{59} & - & \boxed{3} = \boxed{56} \\ & + & + \div \\ \boxed{39} & \boxed{88} & \div \boxed{8} = \boxed{11} \\ & = & = = \div \\ \boxed{98} & - & \boxed{91} = \boxed{7} \quad \boxed{11} \\ & & = \\ & & \boxed{90} - \boxed{89} = \boxed{1} \\ & & - - \\ \boxed{62} & - & \boxed{47} = \boxed{15} \\ & = & = \\ \boxed{28} & + & \boxed{42} = \boxed{70} \end{array}$$

Puzzle 3 · Hard

$$\begin{array}{rcl} \boxed{6} & + & \boxed{86} = \boxed{92} \\ & \div & \div \\ \boxed{21} & \div & \boxed{7} = \boxed{3} \quad \boxed{43} - \boxed{21} = \boxed{22} \\ & + & = = - \div \\ \boxed{79} & - & \boxed{77} = \boxed{2} \quad \boxed{2} \times \boxed{1} = \boxed{2} \\ & = & = = \\ \boxed{100} & & \boxed{31} - \boxed{20} = \boxed{11} \\ & & - \\ & & \boxed{18} \\ & & = \\ & & \boxed{13} \end{array}$$

Puzzle 4 · Hard

$$\begin{array}{rcl} \boxed{2} & \div & \boxed{2} = \boxed{1} \\ & + & \\ \boxed{87} & + & \boxed{11} = \boxed{98} \\ & = & - - \\ \boxed{2} & \boxed{89} & - \boxed{9} = \boxed{80} \\ & + & = = \\ \boxed{93} & \boxed{9} & \times \boxed{2} = \boxed{18} \\ & = & + \\ \boxed{95} & - & \boxed{90} = \boxed{5} \\ & = & \\ \boxed{99} & \div & \boxed{99} = \boxed{1} \end{array}$$