

Name: _____ Date: _____ Score: _____

Long Division with remainders - Fill in the blanks!

1). $3 \overline{)535}$ r

A diagram for the long division problem 535 divided by 3. The dividend 535 is written above a horizontal line. The divisor 3 is to the left. A blue box is above the 5, a green box is above the 3, and an orange box is above the 5. Below the line, a blue box is above the 5, a green box is above the 3, and an orange box is above the 5. A downward arrow points from the blue box to the 5. A downward arrow points from the green box to the 3. A downward arrow points from the orange box to the 5. Below this, a green box is above the 5, a green box is above the 3, and a green box is above the 5. A downward arrow points from the green box above the 5 to the green box above the 5. A downward arrow points from the green box above the 3 to the green box above the 3. A downward arrow points from the green box above the 5 to the green box above the 5. Below this, an orange box is above the 5, an orange box is above the 3, and an orange box is above the 5. A downward arrow points from the orange box above the 5 to the orange box above the 5. A downward arrow points from the orange box above the 3 to the orange box above the 3. A downward arrow points from the orange box above the 5 to the orange box above the 5. Below this, a grey box is above the 5, a grey box is above the 3, and a grey box is above the 5. A downward arrow points from the grey box above the 5 to the grey box above the 5. A downward arrow points from the grey box above the 3 to the grey box above the 3. A downward arrow points from the grey box above the 5 to the grey box above the 5.

2). $9 \overline{)982}$ r

A diagram for the long division problem 982 divided by 9. The dividend 982 is written above a horizontal line. The divisor 9 is to the left. A blue box is above the 9, a green box is above the 8, and an orange box is above the 2. Below the line, a blue box is above the 9, a green box is above the 8, and an orange box is above the 2. A downward arrow points from the blue box to the 9. A downward arrow points from the green box to the 8. A downward arrow points from the orange box to the 2. Below this, a green box is above the 9, a green box is above the 8, and a green box is above the 2. A downward arrow points from the green box above the 9 to the green box above the 9. A downward arrow points from the green box above the 8 to the green box above the 8. A downward arrow points from the green box above the 2 to the green box above the 2. Below this, an orange box is above the 9, an orange box is above the 8, and an orange box is above the 2. A downward arrow points from the orange box above the 9 to the orange box above the 9. A downward arrow points from the orange box above the 8 to the orange box above the 8. A downward arrow points from the orange box above the 2 to the orange box above the 2. Below this, a grey box is above the 9, a grey box is above the 8, and a grey box is above the 2. A downward arrow points from the grey box above the 9 to the grey box above the 9. A downward arrow points from the grey box above the 8 to the grey box above the 8. A downward arrow points from the grey box above the 2 to the grey box above the 2.

3). $6 \overline{)716}$ r

A diagram for the long division problem 716 divided by 6. The dividend 716 is written above a horizontal line. The divisor 6 is to the left. A blue box is above the 7, a green box is above the 1, and an orange box is above the 6. Below the line, a blue box is above the 7, a green box is above the 1, and an orange box is above the 6. A downward arrow points from the blue box to the 7. A downward arrow points from the green box to the 1. A downward arrow points from the orange box to the 6. Below this, a green box is above the 7, a green box is above the 1, and a green box is above the 6. A downward arrow points from the green box above the 7 to the green box above the 7. A downward arrow points from the green box above the 1 to the green box above the 1. A downward arrow points from the green box above the 6 to the green box above the 6. Below this, an orange box is above the 7, an orange box is above the 1, and an orange box is above the 6. A downward arrow points from the orange box above the 7 to the orange box above the 7. A downward arrow points from the orange box above the 1 to the orange box above the 1. A downward arrow points from the orange box above the 6 to the orange box above the 6. Below this, a grey box is above the 7, a grey box is above the 1, and a grey box is above the 6. A downward arrow points from the grey box above the 7 to the grey box above the 7. A downward arrow points from the grey box above the 1 to the grey box above the 1. A downward arrow points from the grey box above the 6 to the grey box above the 6.

4). $4 \overline{)417}$ r

A diagram for the long division problem 417 divided by 4. The dividend 417 is written above a horizontal line. The divisor 4 is to the left. A blue box is above the 4, a green box is above the 1, and an orange box is above the 7. Below the line, a blue box is above the 4, a green box is above the 1, and an orange box is above the 7. A downward arrow points from the blue box to the 4. A downward arrow points from the green box to the 1. A downward arrow points from the orange box to the 7. Below this, a green box is above the 4, a green box is above the 1, and a green box is above the 7. A downward arrow points from the green box above the 4 to the green box above the 4. A downward arrow points from the green box above the 1 to the green box above the 1. A downward arrow points from the green box above the 7 to the green box above the 7. Below this, an orange box is above the 4, an orange box is above the 1, and an orange box is above the 7. A downward arrow points from the orange box above the 4 to the orange box above the 4. A downward arrow points from the orange box above the 1 to the orange box above the 1. A downward arrow points from the orange box above the 7 to the orange box above the 7. Below this, a grey box is above the 4, a grey box is above the 1, and a grey box is above the 7. A downward arrow points from the grey box above the 4 to the grey box above the 4. A downward arrow points from the grey box above the 1 to the grey box above the 1. A downward arrow points from the grey box above the 7 to the grey box above the 7.

Answers

1).
$$\begin{array}{r} \begin{array}{|c|c|c|} \hline 1 & 7 & 8 \\ \hline \end{array} \quad r \begin{array}{|c|} \hline 1 \\ \hline \end{array} \\ \hline 3 \overline{)535} \\ \begin{array}{|c|} \hline 3 \\ \hline \end{array} \downarrow \begin{array}{|c|} \hline \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 2 & 3 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 2 & 1 \\ \hline \end{array} \downarrow \\ \begin{array}{|c|c|} \hline 2 & 5 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 2 & 4 \\ \hline \end{array} \\ \hline \begin{array}{|c|c|} \hline 0 & 1 \\ \hline \end{array} \end{array}$$

2).
$$\begin{array}{r} \begin{array}{|c|c|c|} \hline 1 & 0 & 9 \\ \hline \end{array} \quad r \begin{array}{|c|} \hline 1 \\ \hline \end{array} \\ \hline 9 \overline{)982} \\ \begin{array}{|c|} \hline 9 \\ \hline \end{array} \downarrow \begin{array}{|c|} \hline \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 0 & 8 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 0 & 0 \\ \hline \end{array} \downarrow \\ \begin{array}{|c|c|} \hline 8 & 2 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 8 & 1 \\ \hline \end{array} \\ \hline \begin{array}{|c|c|} \hline 0 & 1 \\ \hline \end{array} \end{array}$$

3).
$$\begin{array}{r} \begin{array}{|c|c|c|} \hline 1 & 1 & 9 \\ \hline \end{array} \quad r \begin{array}{|c|} \hline 2 \\ \hline \end{array} \\ \hline 6 \overline{)716} \\ \begin{array}{|c|} \hline 6 \\ \hline \end{array} \downarrow \begin{array}{|c|} \hline \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 1 & 1 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 0 & 6 \\ \hline \end{array} \downarrow \\ \begin{array}{|c|c|} \hline 5 & 6 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 5 & 4 \\ \hline \end{array} \\ \hline \begin{array}{|c|c|} \hline 0 & 2 \\ \hline \end{array} \end{array}$$

4).
$$\begin{array}{r} \begin{array}{|c|c|c|} \hline 1 & 0 & 4 \\ \hline \end{array} \quad r \begin{array}{|c|} \hline 1 \\ \hline \end{array} \\ \hline 4 \overline{)417} \\ \begin{array}{|c|} \hline 4 \\ \hline \end{array} \downarrow \begin{array}{|c|} \hline \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 0 & 1 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 0 & 0 \\ \hline \end{array} \downarrow \\ \begin{array}{|c|c|} \hline 1 & 7 \\ \hline \end{array} \\ \begin{array}{|c|c|} \hline 1 & 6 \\ \hline \end{array} \\ \hline \begin{array}{|c|c|} \hline 0 & 1 \\ \hline \end{array} \end{array}$$