Lesson 6 Homework 3•3

Name: ____________________________ Date: ____________________________

1. Label the tape diagrams. Then fill in the blanks below to make the statements true.

   a. 6 × 7 = _____

      \[
      \begin{array}{c}
      \hline
      7 \ \\
      \hline
      \end{array}
      \]

      (5 × 7) = _____
      (_____ × 7) = _____

      \[
      \begin{array}{c}
      \hline
      7 \ \\
      \hline
      \end{array}
      \]

      \[
      \begin{array}{c}
      \hline
      (6 \times 7) = (5 + 1) \times 7 \\
      = (5 \times 7) + (1 \times 7) \\
      = 35 + _____ \\
      = _____
      \end{array}
      \]

   b. 7 × 7 = _____

      \[
      \begin{array}{c}
      \hline
      7 \ \\
      \hline
      \end{array}
      \]

      (5 × 7) = _____
      (_____ × 7) = _____

      \[
      \begin{array}{c}
      \hline
      7 \ \\
      \hline
      \end{array}
      \]

      \[
      \begin{array}{c}
      \hline
      (7 \times 7) = (5 + 2) \times 7 \\
      = (5 \times 7) + (2 \times 7) \\
      = 35 + _____ \\
      = _____
      \end{array}
      \]

   c. 8 × 7 = _____

      \[
      \begin{array}{c}
      \hline
      7 \ \\
      \hline
      \end{array}
      \]

      (5 × 7) = _____
      (_____ × 7) = _____

      \[
      \begin{array}{c}
      \hline
      7 \ \\
      \hline
      \end{array}
      \]

      \[
      \begin{array}{c}
      \hline
      8 \times 7 = (5 + _____) \times 7 \\
      = (5 \times 7) + (_____ \times 7) \\
      = 35 + _____ \\
      = _____
      \end{array}
      \]

   d. 9 × 7 = _____

      \[
      \begin{array}{c}
      \hline
      7 \ \\
      \hline
      \end{array}
      \]

      (5 × 7) = _____
      (_____ × 7) = _____

      \[
      \begin{array}{c}
      \hline
      7 \ \\
      \hline
      \end{array}
      \]

      \[
      \begin{array}{c}
      \hline
      9 \times 7 = (5 + _____) \times 7 \\
      = (5 \times 7) + (_____ \times 7) \\
      = 35 + _____ \\
      = _____
      \end{array}
      \]
2. Break apart 54 to solve $54 \div 6$.

$$54 \div 6 = (30 \div 6) + (\_\_\_\_\_\_ \div 6)$$

$$= 5 + \_\_\_\_\_\_$$

$$= \_\_\_\_\_\_$$

3. Break apart 56 to solve $56 \div 7$.

$$56 \div 7 = (35 \div 7) + (\_\_\_ \div 7)$$

$$= 5 + \_\_\_\_\_\_$$

$$= \_\_\_\_\_\_$$

4. Forty-two third grade students sit in 6 equal rows in the auditorium. How many students sit in each row? Show your thinking.

5. Ronaldo solves $7 \times 6$ by thinking of it as $(5 \times 7) + 7$. Is he correct? Explain Ronaldo’s strategy.