

Learning Goal:

By the end of this lesson I should be able to MULTIPLY single digit positive numbers together WITHOUT the use of a calculator (technology).

Example Strategies: Find the PRODUCT of 4×3 (four groups of three or three groups of four)

Number Model

$$\begin{aligned} 4 \times 3 &= 3 + 3 + 3 + 3 & \text{or} & \quad 4 + 4 + 4 \\ &= 6 + 6 & \text{or} & \quad = 8 + 4 \\ &= 12 & \text{or} & \quad = 12 \end{aligned}$$

Area Model – Count the squares

1	2	3	4
5	6	7	8
9	10	11	12

Skills Practice:

Write the following as a multiplication expression (one number times another).

(a) $4 + 4 + 4 + 4 + 4 + 4$

(b) $9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9$

Find the Product of the following using the Number Model or Area Model.

(a) 2×5

(b) 3×6

(c) $(5)(4)$

(d) $(7) \times (8)$

(e) $(11)(10)$

(f) $(0) \times (7)$