

Answers

DAY ONE

**Activity 1:** Zach has multiplied the parts correctly but has added them up incorrectly.  $120 + 24 = 144$

**Activity 2:**

|   |   |   |             |  |
|---|---|---|-------------|--|
|   |   |   |             |  |
|   | 1 | 3 |             |  |
| x |   | 3 |             |  |
|   |   | 9 | (3x3 = 9)   |  |
|   | 3 | 0 | (3x10 = 30) |  |
|   | 3 | 9 |             |  |

**Activity 3:**

|   |   |   |             |              |
|---|---|---|-------------|--------------|
|   |   |   |             |              |
|   | 7 | 2 |             |              |
| x |   | 3 |             |              |
|   |   | 6 | (3 x 2 = 6) |              |
|   | 2 | 1 | 0           | (3 x 7 = 21) |
|   | 2 | 1 | 6           |              |

|   |   |   |             |              |
|---|---|---|-------------|--------------|
|   |   |   |             |              |
|   | 4 | 1 |             |              |
| x |   | 6 |             |              |
|   |   | 6 | (6 x 1 = 6) |              |
|   | 2 | 4 | 0           | (6 x 4 = 24) |
|   | 2 | 4 | 6           |              |

|   |   |   |              |                  |
|---|---|---|--------------|------------------|
|   |   |   |              |                  |
|   | 2 | 6 |              |                  |
| x |   | 7 |              |                  |
|   |   | 2 | (6 x 7 = 42) |                  |
|   | 1 | 8 | 0            | (7 x 2 + 4 = 18) |
|   | 1 | 8 | 2            |                  |

|   |   |   |                 |  |
|---|---|---|-----------------|--|
|   |   |   |                 |  |
|   | 1 | 9 |                 |  |
| x |   | 5 |                 |  |
|   |   | 5 | (9 x 5 = 45)    |  |
|   | 9 | 0 | (5 x 1 + 4 = 9) |  |
|   | 9 | 5 |                 |  |

**Activity 4:**

|   |   |   |
|---|---|---|
|   | T | O |
| 2 | 5 | 1 |
| x |   | 5 |
| 2 | 5 | 5 |

**Activity 5:**

- Sometimes:  $12 \times 2$  only has two-digits but  $23 \times 5$  has three-digits.
- Never: all multiples of 8 are even.
- Sometimes: Most two-digit numbers will need exchanging but not 10 or 11.

DAY TWO

**Activity 1**

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
|   | 2 | 0 | 6 |
| x |   |   | 3 |
|   | 6 | 1 | 8 |

Activity 2

|   |   |   |   |
|---|---|---|---|
|   | H | T | O |
|   | 3 | 6 | 5 |
| X |   |   | 3 |
| 1 | 0 | 9 | 5 |

Activity 3: Tia has the correct answer. Malachi has forgotten to add the two hundreds he exchanged from the tens column.

Activity 4

$715 \times 5 = 3575$

$3575 + 715 = 4290$ .  
They read 4290 pages altogether.

$715 \times 4 = 2860$   
Zach reads 2860 pages fewer than his mum.

DAY THREE

Activity 1

$55 \div 5 = 11$        $120 \div 6 = 20$        $124 \div 4 = 31$

Activity 2

Tia is correct because 70 is not a multiple of 3. So when you divide seven tens between three groups, there will be one remaining which will be exchanged.

Activity 3

$63 \div 3 < 96 \div 3$   
 $96 \div 4 < 96 \div 3$   
 $91 \div 7 < 84 \div 6$

DAY FIVE

$678 \div 3 = 226$   
 $791 \div 7 = 113$   
 $216 \div 4 = 54$