

Reasoning and Problem Solving

Multiply 4-Digits by 2-Digits

Developing

1a. $2,211 \times 23 = 50,853$

2a. An explanation that recognises Jake has not correctly multiplied the thousands in the first number by the tens in the second number.

3a. Various answers, for example: $2,311 \times 23 = 53,153$ and $2,322 \times 23 = 53,406$

Expected

4a. $7,931 \times 21 = 166,551$

5a. An explanation that recognises Tom has not included a place holder when multiplying his tens.

6a. Various answers, for example: $1,682 \times 13 = 21,866$ and $1,673 \times 13 = 21,749$

Greater Depth

7a. $6,425 \times 37 = 237,725$

8a. An explanation that recognises Philip has not added on the 2 hundreds which were carried over from the multiplication of the 4 tens and the 6 ones.

9a. Various answers, for example: $4,735 \times 14 = 66,290$ and $4,726 \times 14 = 66,164$

Reasoning and Problem Solving

Multiply 4-Digits by 2-Digits

Developing

1b. $2,140 \times 21 = 44,940$

2b. An explanation that recognises that Tina has not correctly multiplied the tens in both numbers.

3b. Various answers, for example: $3,221 \times 21 = 67,641$ and $3,321 \times 21 = 69,741$

Expected

4b. $2,317 \times 12 = 27,804$

5b. An explanation that recognises Julie has not added the thousand carried over from the 3×6 hundreds.

6b. Various answers, for example: $2,512 \times 14 = 35,168$ and $2,612 \times 14 = 36,568$

Greater Depth

7b. $9,284 \times 27 = 250,668$

8b. Amy is correct. Multiplications have been done correctly, ensuring correct values have been carried.

9b. Various answers, for example: $3,494 \times 26 = 90,844$ and $3,476 \times 26 = 90,376$