

Challenge

Add Like the Romans

Here are some Roman numerals with their equivalent Arabic numerals. Arabic numerals are the numerals we use today.

$I = 1$ $C = 100$ $V = 5$ $D = 500$ $X = 10$ $M = 1,000$ $L = 50$	<p>Remember these shortcuts:</p> $III = 1 + 1 + 1 = 3$ $XL = 50 - 10 = 40$ $IV = 5 - 1 = 4$ $CD = 500 - 100 = 400$ $VI = 5 + 1 = 6$ $CM = 1,000 - 100 = 900$ $IX = 10 - 1 = 9$ $MC = 1,000 + 100 = 1,100$
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Use the shortcuts and what you know about place value to add. Then find the sum using Arabic numerals.

1. $DXXXII + DCVIII =$ _____

_____ + _____ = _____

2. $MDCXX + MDCCCL =$ _____

_____ + _____ = _____

3. $CCCLVI + MCXXV =$ _____

_____ + _____ = _____

4. $MCCCXXXVI + MMDCIII =$ _____

_____ + _____ = _____

5. **Analyze It** If you wanted to add the Roman numerals IV and IX, would you use the numerals written with or without the shortcut? Why or why not?

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1. $DXXXII + DCVIII =$ **MCXL**

532 + **608** = **1,140**

2. $MDCXX + MDCCCL =$ **MMMCDLXX**

1,620 + **1,850** = **3,470**

3. $CCCLVI + MCXXV =$ **MCDLXXXI**

356 + **1,125** = **1,481**

4. $MCCCXXXVI + MMDCIII =$ **MMMCMXXXIX**

1,336 + **2,603** = **3,939**

5. **Analyze It** If you wanted to add the Roman numerals IV and IX, would you use the numerals written with or without the shortcut? Why or why not?

Sample answer: I would write the numerals without the shortcut. This makes it easier to add the ones.