

Roman Numerals
Meeting 4

October 20, 2013

Insert missing Roman numerals:

I, II, III, IV, V, VI, VII, VIII, IX, X

Someone made a mistake when writing these Roman numerals. Can you rewrite them correctly?

1. VIIIII = X

2. IIIII = V

3. VV = X

Some addition and subtraction problems are easy with Roman numerals. For example,

1. V + I = VI

2. V + III = VIII

3. III - I = II

4. VII - I = VI

Other addition and subtraction problems are more complicated:

1. $\text{III} + \text{II} = \text{V}$

2. $\text{VI} - \text{IV} = \text{II}$

3. $\text{V} + \text{IV} = \text{IX}$

4. $\text{VI} - \text{II} = \text{IV}$

5. $\text{V} + \text{V} = \text{X}$

6. $\text{X} - \text{VI} = \text{IV}$

7. $\text{IV} + \text{IV} = \text{VIII}$

Move a stick!

These Roman numerals are made out of sticks. Someone solved all the addition problems, but made many mistakes! Can you move one stick in each equation to make them right? Share your answer with the person sitting next to you. There may be more than one right answer!

1. $II + II = IV$

2. $IV + II = VI$

3. $VI + IV = X$

4. $IX + IV = XIII$

Insert missing Roman numerals:

X, XI, XII, XIII, XIV, XV, XVI, XVII, XVIII, XIX, XX

Someone made a mistake when writing these Roman numerals. Can you rewrite them correctly?

1. XVIIIII = XX

2. XIIIII = XV

3. XVV = XX

Solve these addition and subtraction problems:

1. XV + II = XVII

2. XX - I = XIX

3. XVI - II = XIV

4. IX + VI = XV

5. XVII - V = XII

Move a stick to correct these problems:

1. XIX - XI = VIII

2. IX + IV = XIII

3. VI + VI = XII

4. XX - IV = XVI

5. XXI - VI = XV

More Roman numerals:

Figure out what the Roman Numerals XX and XXX stand for if

$$X + X = XX, \quad X + X + X = XXX.$$

$$\begin{aligned} XX &= 20 \\ XXX &= 30 \end{aligned}$$

Here are more Roman Numerals:

$$\begin{aligned} \text{Fifty} &= L \\ \text{One Hundred} &= C \\ \text{Five Hundred} &= D \\ \text{One Thousand} &= M \end{aligned}$$

Figure out what the Roman numerals below mean:

1. DL = 550
2. CCXIV = 214
3. DVIII = 508
4. MMCC = 2200

Homework:

1. MDCLXVI =

2. Write your birthdate using Roman numerals. For example, my birthdate is 08/11/1990, which is VIII/XI/MCMXC.