

Roman Numerals

Insert the 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 way to correct the problems!

$$1. \text{ II} + \text{ II} = \text{ VI} \quad \implies \quad \text{ II} + \text{ II} = \text{ IV}$$

$$2. \text{ VI} + \text{ II} = \text{ VI} \quad \implies \quad \text{ IV} + \text{ II} = \text{ VI}$$

$$3. \text{ IV} + \text{ IV} = \text{ X} \quad \implies \quad \text{ V} + \text{ IV} = \text{ IV}$$

$$4. \text{ XI} + \text{ IV} = \text{ XIII} \quad \implies \quad \text{ IX} + \text{ IV} = \text{ XIII}$$

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. XIIIIII =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:

$$1. \text{XIX} - \text{IX} = \text{VIII} \quad \Rightarrow \quad \text{XIX} - \text{XI} = \text{VIII}$$

$$2. \text{XI} + \text{IV} = \text{XIII} \quad \Rightarrow \quad \text{IX} + \text{IV} = \text{XIII}$$

$$3. \text{IV} + \text{VI} = \text{XII} \quad \Rightarrow \quad \text{VI} + \text{VI} = \text{XII}$$

$$4. \text{XX} - \text{IV} = \text{XIV} \quad \Rightarrow \quad \text{XX} - \text{IV} = \text{XVI}$$

$$5. \text{XIX} - \text{VI} = \text{XV} \quad \Rightarrow \quad \text{XIX} - \text{VI} = \text{XV}$$

More Roman numerals:

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

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

XX =twenty
XXX =thirty

Here are more Roman Numerals:

Fifty = L
One Hundred = C
Five Hundred = D
One Thousand = M

Figure out what the Roman numerals below mean:

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

Advanced Roman Numerals

Now that you're an expert in writing in Roman numerals, let's try writing bigger numbers. Write the following decimal numbers as Roman numerals.

1. 630

DCXXX

2. 830

DCCCXXX

3. 1000

M

4. 1516

MDXVI

5. 3556

MMM DLVI

6. 1210

MCCX

7. 5763

V̄DCCLXIII

8. 2222

MMCCXXII

9. Write today's date in Roman numerals.

IV/XVII/MMXVI

Great! Let's now convert the following Roman numerals into numbers.

1. CMIII =

903

2. CCXXXVI =

236

3. CLXXVII =

177

4. MMIX =

2009

5. MDCCXIII =

1713

6. MCCCXXIX =

1329

7. MMDCCCLIX =

2859

8. MMMCCCLXXXII =

3382

9. MMMCCXLV = **3245**

Move a stick to correct the following problems.

1. XIV - V = IX

NO ERROR

2. XXXII - IV = XXVI

XXXI-IV=XXVII

3. $LI - XVIII = XXXV$

$LII - XVII = XXXV$

4. $CLI - XXVII = CXXII$

$CL - XXVII = CXXIII$

5. $LX - XXXIII = XXVII$

NO ERROR