

### How do I read and write Roman numerals?

A numeral is a symbol used to represent a number. (Our digits 0-9 are often called Arabic numerals.) Each letter used in Roman numerals stands for a different number:

Roman Numeral	Number
I	1
V	5
X	10
L	50
C	100
D	500
M	1000

A string of letters means that their values should be added together. For example, XXX = 10 + 10 + 10 = 30, and LXI = 50 + 10 + 1 = 61. If a smaller value is placed *before* a larger one, we subtract instead of adding. For instance, IV = 5 - 1 = 4.

You can use these rules to write a number in Roman numerals. Convert one digit at a time. Let's try 982:

$$\begin{aligned}
 &982 \\
 &= 900 + 80 + 2 \\
 &= \text{CM} + \text{LXXX} + \text{II} \\
 &= \text{CMLXXXII}.
 \end{aligned}$$

## Roman Numerals Worksheet 28

Write the Roman numerals as normal numbers.

1a. XVI    16

1b. XVIII    18

1c. XLVIII    48

2a. XLI    41

2b. XLVI    46

2c. XXXV    35

3a. XL    40

3b. VIII    8

3c. V    5

4a. XII    12

4b. I    1

4c. XXXII    32

5a. VIII    8

5b. XXIV    24

5c. XXXVI    36

6a. XLVIII    48

6b. XXXIV    34

6c. XXV    25

January  
Math Bowl – Roman numerals, random hat

1. Answer in Roman numerals.

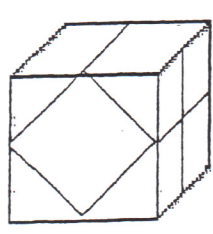
23 × 32 =

23  
× 32  
—  
46  
69  
—  
736

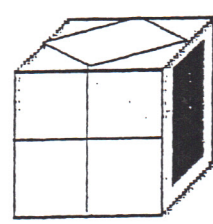
- M = 1000
- D = 500
- C = 100
- L = 50
- X = 10
- V = 5

700 + 30 + 6  
= DCCXXXVI

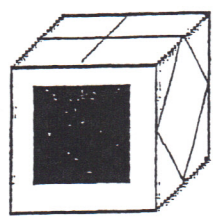
2. There is a different pattern on each side of the box. Which of these is not a view of the same box?



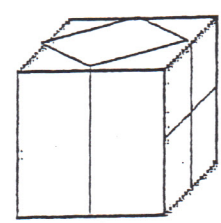
A



B



C



D

Complete the following statements.

1) 7 ft. = 84 in.

2) 24 in. = 2 ft.

3) 3 yd. = 36 in.

11) 40 ft. = 13 yd. 1 ft.

12) 205 ft. = 68 yd. 1 ft.

13) 2 ft. 6 in. = 30 in.

14) 2 ft. 12 in. = 3 ft.

15) 1 yd. 6 in. = 42 in.

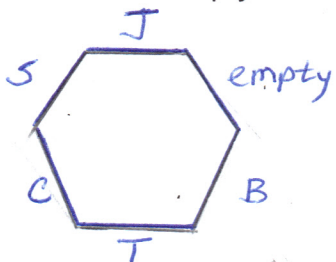
16) 2 ft. 24 in. = 4 ft.

Green Bay West High Elementary Math Bowl  
May 8, 2003

Name: \_\_\_\_\_

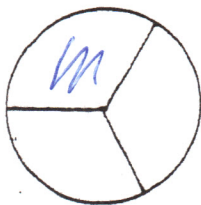
Team Event

1. Spongebob Square Pants, Tommy Pickles, Johnny Bravo, Buttercup, and Charizard are all sitting at a hexagonal table.
  - a. The empty chair is between Johnny and Buttercup.
  - b. Spongebob is scared of Buttercup so he sits as far away from her as possible.
  - c. Charizard, Spongebob, and Johnny are all sitting next to each other.
  - d. Tommy is directly across from Johnny.
 Who sits across from the empty chair?

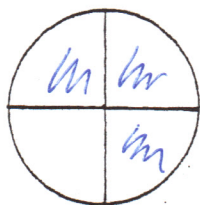


Charizard

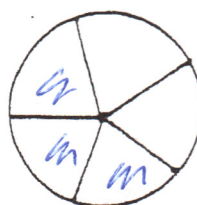
2. Bill has 3 pizzas. He cuts one into 3 equal slices, one into 4 equal slices, and one into 5 equal slices.



He eats 1 piece from this pizza



3 from this one

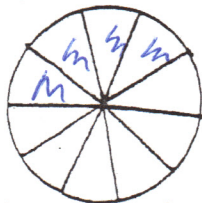


and 3 from this one

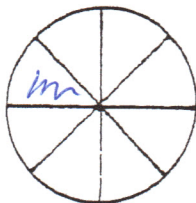
$$\frac{2}{3} + \frac{1}{4} + \frac{2}{5}$$

$$= \frac{40}{60} + \frac{15}{60} + \frac{24}{60} = \frac{79}{60} = 1 \frac{19}{60}$$

- Sally has 2 pizzas: She cuts one into 10 equal slices and one into 8 equal slices.



She eats 4 pieces from this pizza



and 1 from this pizza

$$\frac{6}{10} + \frac{7}{8} = \frac{3}{5} + \frac{7}{8} = \frac{24}{40} + \frac{35}{40} = \frac{79}{40} = 1 \frac{39}{40}$$

Who has more pizza left?

Sally

3. If  $16 = 3 \times \square + 1$ , then  $7 \times \square + \square = ?$

$$\begin{aligned} \frac{-1}{15} &= \frac{-1}{3 \square} \\ 5 &= \square \end{aligned} \qquad 7 \times 5 + 5 = 40$$

40

4. Find the average of the numbers in the stem and leaf plot

stem	leaves
1	1 2 7 8
2	0 3 7 9
3	1 2 4 6
4	1 4 5

$$\begin{aligned} &40 + \\ &80 \quad 60 \\ &120 \\ &120 \\ \hline &360 + 60 = 420 \end{aligned}$$

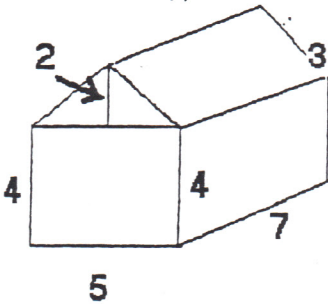
$$\begin{array}{r} 28 \\ 15 \overline{) 420} \\ \underline{30} \\ 120 \end{array}$$

$$\frac{420}{15} = 28$$

28

5. Find the surface area of the toy house drawn below.  
(surface area is the sum of the areas of each face)

Include bottom



$$\begin{aligned} &(20 \cdot 2) + (28 \cdot 2) + 35 + (2 \cdot \frac{1}{2} \cdot 2 \cdot 5) + (2 \cdot 21) \\ &= 40 + 56 + 10 + 35 + 42 \end{aligned}$$

183

6. Andy lives and works in a chocolate factory. On the first day he is paid \$1.00. Every day his pay doubles. He works for 10 days in a row. What is his total salary for those 10 days?

$$1 + 2 + 4 + 8 + 16 + 32 + 64 + 128 + 256 + 512$$

\$ 1023