

SUPERSTARS III

Mars, XV

Name: _____
(This shows my own thinking.)

- H 1. Place the correct sign ($=$, $<$, or $>$) in the box.

$$81 \div 9 \quad \square \quad 5 \times 3$$

- HH 2. Ben has 5 marbles. Kate has 7 more marbles than Ben. Tina has 9 more marbles than Kate. Who has the greatest number of marbles? How many marbles do they have in all?

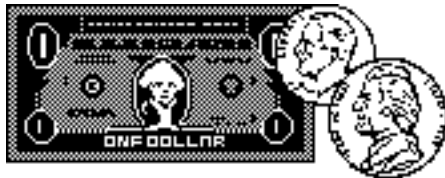
Answer: _____ has the greatest number; there are _____ marbles in all

- HHH 3. Ken is buying a bicycle with money he got for Christmas. The bicycle costs \$87.95. Which of the following pictures shows his change from the \$90.00 he gave the clerk? Circle the correct change.

a.



b.



c.



- HHH 4. Find the value of each item used in the following sentences.

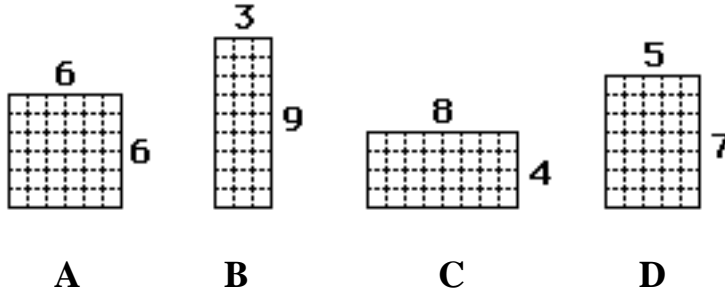
$$\mathbf{H} + \mathbf{C} = \$9$$

$$\mathbf{C} + \mathbf{c} = \$13$$

$$\mathbf{c} + \mathbf{c} = \$18$$

Answer: $\mathbf{H} =$ _____ $\mathbf{C} =$ _____ $\mathbf{c} =$ _____

HHH 5. Mr. Smith is planning to fence his new garden. He has 24 feet of fencing to use around the perimeter of his garden. He wants the greatest *area* for his garden. Which of the following gardens will give him the greatest area? Circle your choice.



HHH 6. Some nonsense names are given to a group of numbers that are alike in some way. This is an example:

These numbers are *kewees*: 54, 78, 112, 246, 480, 574, 942
 These numbers are *not* kewees: 33, 67, 147, 259, 421, 505, 863
 Which of these are *kewees*? 43, 58, 166, 369, 620, 891

Answer : _____

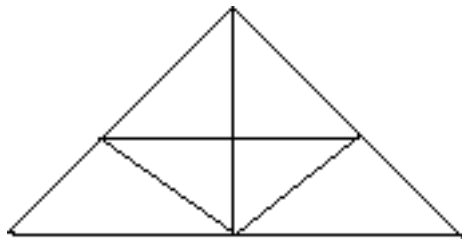
HH 7. Sam asked Tim to find 3 consecutive even numbers whose sum is 48. The following are examples of consecutive numbers that do *not* sum to 48:

$$2 + 4 + 6 = 12; \quad 4 + 6 + 8 = 18; \quad 6 + 8 + 10 = 24.$$

Help Tim by finding 3 consecutive even numbers whose sum is 48.

Answer: _____

HHHH 8. Look carefully at the triangle puzzle that Paul drew. How many triangles are there?



Answer: _____ triangles