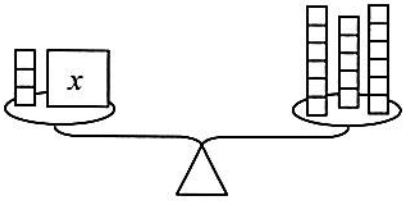
**Smiley Face Math**
**Grade 5, Worksheet II**

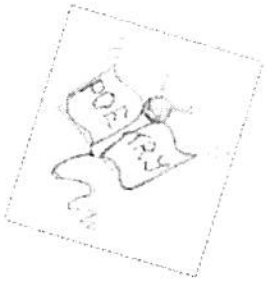
**Name:** _____

☺ ☺ ☺ 1. Find the missing number $x$ in this equation: $3 + x = 17$. Answer: $x =$ ___.



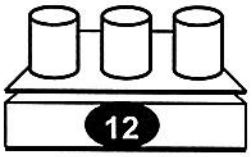

Explain how you can find the answer using the balance scale to the left. Each small square is 1 gram.

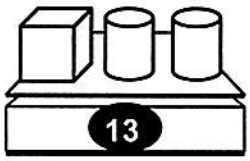
☺ ☺ 2. a. Lauren is planning a poetry reading with her 5 friends. She only has 90 minutes after school. Each poet, including Lauren, will read for the same amount of time. How long will each poet read? _____minutes

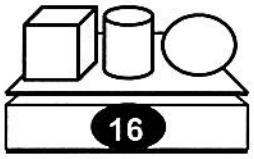


b. How can you check your answer to the problem above, using multiplication instead of division?

☺ ☺ ☺ 3. Find the weight of each solid shape.




a cylinder weighs ___ pounds; a cube weighs ___ pounds; a sphere weighs _____pounds

Explain how you found your answer:

☺ ☺ ☺ 4. There are 127 students coming into 5th grade next year. Each classroom can hold up to 23 students.

a. How many classrooms do they need? _____

b. How many students would be in each class if the principal wanted all classes to be equal, or as close as possible? _____

c. Explain your answer to (b) above. How did you decide?

☺ ☺ ☺ ☺ 5. List the first 15 multiples of 3: _____

List the first 10 multiples of 7: _____

List the first 10 multiples of 6: _____

What is the *least (smallest) common multiple* of 3, 7, and 6? _____

☺ ☺ ☺ ☺ 6. An *exponent* tells you how many times to multiply a number by itself. The *exponent* is written on the right-hand side of the number, using a smaller number. For example, $2^4$ means $2\times2\times2\times2$ and equals 16. So we say $2^4 = 16$. Write what these exponents mean, and find the value:

a. $2^5$ means _____ and so $2^5$ = ____

b. $3^2$ means _____ and so $3^2$ = ____

c. $3^3$ means _____ and so $3^3$ = ____

d. $3^4$ means _____ and so $3^4$ = ____