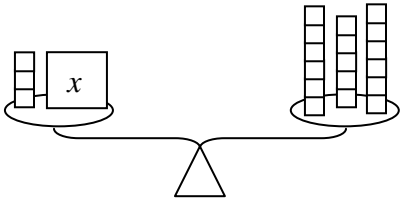


Smiley Face Math
Grade 5, Worksheet II

Name: _____

- ☺ ☺ ☺ 1. Find the missing number x in this equation: $3 + x = 17$. Answer: $x = \underline{\quad}$.

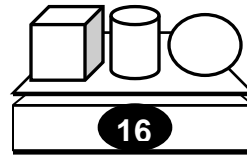
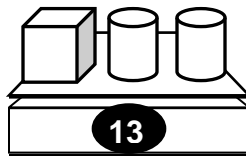
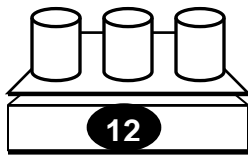


Explain how you can find the answer using the balance scale to the left. Each small square is 1 gram.

- ☺ ☺ 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 $2 \times 2 \times 2 \times 2$ 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 $3^4 =$ _____