

Smiley Face Math
Grade 5, Worksheet III

Name: _____

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1. Parentheses in a math problem tells you to complete that part first. Solve the problems below using that hint.

a. Solve $18 - (5 - 3 + 8) \div 2 = \underline{\hspace{2cm}}$

b. Solve $40 + (10 \div 2) = \underline{\hspace{2cm}}$

c. Solve $30 - (15 \times 2) = \underline{\hspace{2cm}}$

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2. Solve the problem $403 \div 38$ in two ways. Show all your work.
(“ \approx ” below means *is about equal to*.)

Estimating:

$403 \div 38 \approx \underline{\hspace{2cm}}$

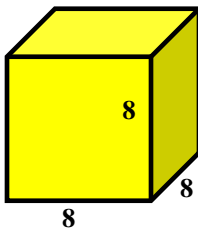
Using long division:

$38 \overline{)4032}$

Compare your answers. Was your estimate close to the actual answer? Which way was easier for you to solve? Explain.

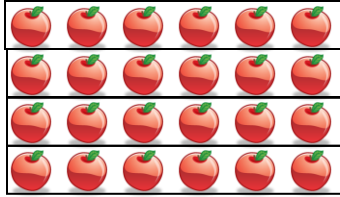
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3. The *surface area* of a figure is the *area* covered by all of its sides. The cube below has six sides, or faces. If each side of this cube is 8 inches long, what is the *surface area* of the cube?
(Hint: Remember the formula for area of a rectangle is: $area = length \times width$)



Answer: The *surface area* is $\underline{\hspace{2cm}}$ square inches.

- ☺ 4. If you want to find $\frac{1}{4}$ of 24, start by dividing 24 into four equal groups. The number in one of those groups is $\frac{1}{4}$ of 24. As you can see below, $\frac{1}{4}$ of 24 apples is 6 apples. And $\frac{3}{4}$ of those apples would be 3 of the groups, or 18 apples.

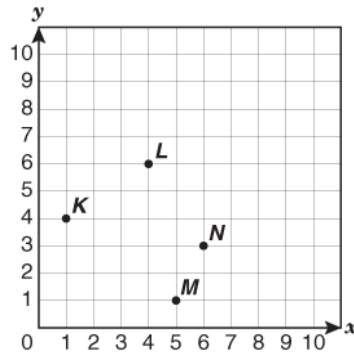


Now you try one. What is $\frac{1}{3}$ of a dozen eggs? ___ eggs

What is $\frac{2}{3}$ of a dozen eggs? ___ eggs

Draw a picture to show your answers:

- ☺ ☺ ☺ 5. The point **K** below has *coordinates* (1,4) because you go *out* 1 and *up* 4 to locate **K**. Use the coordinate grid to write the location for **L**, **M**, and **N**:



Answer:

The coordinates of L are ____

The coordinates of M are ____

The coordinates of N are ____

- ☺ ☺ ☺ ☺ 6. Follow these directions, using the grid in problem 5 above.

Make a dark line to connect:

a. (10,10) to (10,8)	b. (9,10) to (9,8)
c. (10,9) to (9,9)	d. (7,10) to (7,8)
e. (6,10) to (8,10)	f. (6,8) to (8,8)

Hold your paper in front of a mirror. What word did you spell? _____

- ☺ ☺ ☺ 7. Find the sum of **27.35** and **4.6**: Answer: the sum is _____

Now check your work by using a calculator. Fix your answer, if necessary, and explain how to do the problem correctly—why do you need to line up the decimal point when adding decimals?