

For each problem below
evaluate the expression
for $x=5$ and $y=8$.

$$5x + 2y$$

$$2x + (30 - y)$$

$$y \div 2 + 3x$$

$$3y \div 2 + (2x + 2)$$

$$(x^3 - 100) \times 2 + y$$

$$(x + x)^2 + (y + 2)^2$$

Sarah worked the following
problem:

$$20 - (2 \times 6) + 8 \div 2 = 8$$

Did Sarah come up with the
right answer? Use what you
know about the order of
operations to explain why she
did or did not get the correct
answer.

Algebra

ORDER OF OPERATIONS

Name:

What is the
order of operations?

PEMDAS

1. Parentheses
2. Exponents
3. Multiply & Divide
(left to right)
4. Add & Subtract
(left to right)

In the spaces below two order-of-operations problems where $n = 2$ and $k = 4$. Then trade pamphlets with a friend and solve each other's problems.

Insert parentheses where needed to make the following statements true.

1. $36 \div 6 - 2 = 4$

2. $4 \times 8 - 2 = 24$

3. $2 + 2 \times 3 + 6 = 36$

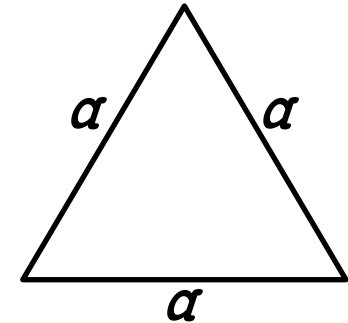
4. $13 - 8 \div 4 + 6 = 17$

5. $3 + 5 \times 2 - 10 = 6$

6. $25 - 7 \times 2 \div 4 + 2 =$

To find the perimeter (distance around) of any equilateral triangle the length of only one side is needed. The perimeter of any equilateral triangle is equal to 3 times the length of one side.

$$\text{Perimeter} = s + s + s = 3s$$



Complete the table. Use $3s$ for perimeter.

Length of a side(s) (in inches)	Perimeter ($3s$) (in inches)
1 in	3 in
2 in	6 in
3 in	9 in
4 in	