

SEQUENCE OF THE 4 BASIC OPERATIONS

In mathematics there is an order of mathematical operation. If there is no order, we can arrive at different answers for many mathematical problems.

ORDER OF OPERATIONS

First: Parentheses and Brackets

Next: Exponents

Then: Multiplication and Division
from left to right

Last: Addition and Subtraction
from left to right

1. Calculate the following. This is a guided exercise.

a) $9 \div (5 - 2) = 9 \div \square = \square$

b) $12 - (4 + 3) = 12 - \square = \square$

c) $9 \times (3 + 5) = 9 \times \square = \square$

d) $(13 - 4) + 2^2 = \square + \square = \square$

e) $6^2 + 36 \div 3 \times 4 = \square + 36 \div \square = \square + \square = \square$

f) $(18 \times 12) \times (15 - 10) = \square \times \square = \square$

$$g) 8 \times 5 - 10 \div 2 = \boxed{} - \boxed{} = \boxed{}$$

$$h) (13 - 20 \div 4) \times 20 = (13 - \boxed{}) \times 20 = \boxed{} \times 20 = \boxed{}$$

$$i) 4^2 + 3^2 - 3 \times 6 = \boxed{} + \boxed{} - 18 = \boxed{} - 18 = \boxed{}$$

$$j) 8 \times (8 - 4 \div 2) = 8 \times (8 - \boxed{}) = 8 \times \boxed{} = \boxed{}$$

2. Solve the following. Type the answer in the space provided.

$$a) (9 \times 6) + (12 \times 3) = \boxed{}$$

$$b) 19 \times (30 + 2) = \boxed{}$$

$$d) 12 + 18 \div 6 - 4 = \boxed{}$$

$$e) (4 + 7) + 9 - 6 = \boxed{}$$

$$f) 20 \times (2 + 3) - (30 \div 2) = \boxed{}$$

3. Select the statement that solves the problem below.

A farmer collects 12 eggs from his hens, 15 eggs from his ducks each day. How many eggs does he collect in two weeks?

☐ $12 + 15 \times 2$

☐ $(12 + 15) \times 14$

☐ $12 + 15 \times 14$

☐ $(12 + 15) \times 2$

4. Use the distributive law to form mathematical statements for the passage.

a. A seamstress stitches 25 blouses and 14 shirts each day. How many garments does she stitch in 6 days?

Answer = _____

b. Two dozen blue pens and three dozen black pens were packed neatly in 6 boxes. Calculate the number of pencils that were packed in each box? Type the answer in the box below.

Answer = _____