school nova™

Math 3   Homework 8

1   Compare the expressions without calculating its values. Use $<, >, =$

$(38 + 47) \times 0$ _____ 0×23
185×1 _____ 2×185
$(15 - 7) \times 5$ _____ $5 \times (15 - 7)$
$(138 + 465) \times 3$ _____ $(465 + 138) \times 4$

2   Calculate:

$5m - 34dm =$ _____
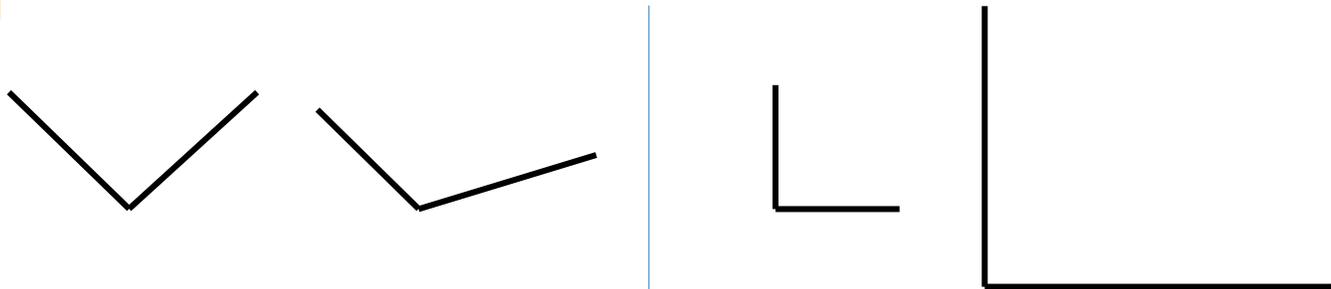
$10dm - 86cm =$ _____

$100cm - 1dm\ 9cm =$ _____

$8dm - 18cm =$ _____

3   Compare angles without measuring them. Use signs " $=$ ", " $<$ ", and " $>$ ":

4   There are some books on the shelf. The 4th grade math textbook is 5th from the left and 17th from the right. How many books are there on the shelf?

_____

_____

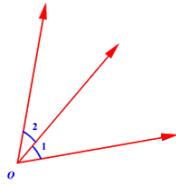**5**   Find the sum using the most convenient method.

a) $3 + 6 + 9 + 12 + 15 + 18 =$ _____

b) $2 + 4 + 6 + \ldots + 48 =$ _____

_____

6   Steven reads a 100-page book. On the 1st day, he read 15 pages, on the 2nd day – 3 times more than on the first day. How many more pages are left for him to read to finish the book?

_____

_____

7

Definition: Two angles are Adjacent when they have a common side and a common vertex (corner point) and don't overlap.
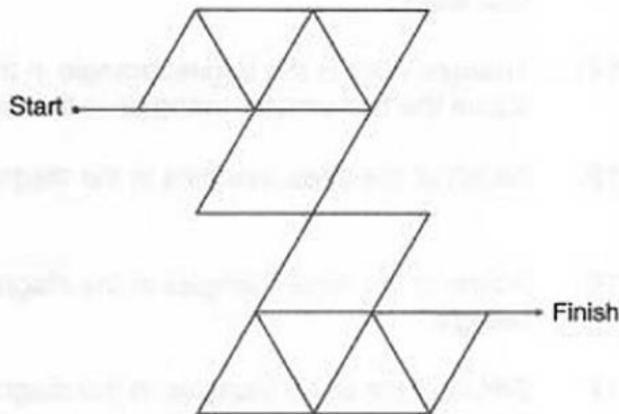
a) Draw 2 adjacent acute angles in such a way that the result angle also will be acute.
Name each angle with 3 letters.

b) Draw 2 adjacent acute angles in such a way that the result angle will be obtuse.
Name each angle with 3 letters.

8

Complete the angle maze below by tracing a path from start to finish. Use only obtuse angles.

Start •

Finish

9

Calculate: (write in the vertical form):

a) $621 - 189 =$ b) $777 - 558$ c) $1,064 + 2,307 =$

10

Pick a number from the cloud to make these statements correct. Use each number only once.
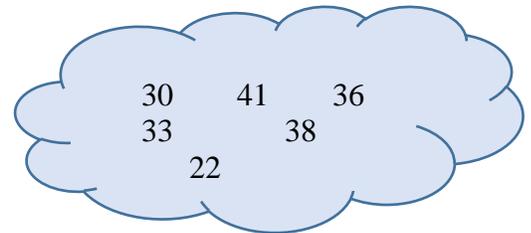
____ < 32 $32 <$ ____   ____ > 23

$23 >$ ____   ____ < 39 ____ > 35

30   41   36
33   38
22

11

Collect the like items to simplify:

$126 + 62 - b - a - 32 + 2a + 2b - a - b =$ _____

$258 + a + 5a - 100 =$ _____

$33 + 537 - a + 4 - a + 7a =$ _____

12

Multiply each number by 10:

$6 \times 10 =$ $22 \times 10 =$ $16 \times 10 =$ $58 \times 10 =$

13

Write down the two-digit multiples of 9 in a list. Look for the pattern in the digits. What happens when you add the digits in each number? _____

14

There are only 6 pieces of ropes with the lengths: 7m, 9m, 42m, 58m, 126m and 133m.
You can only buy two ropes at a time. Which two ropes do you need to measure each of these distances:

a) 75m _____   b)175m_____   c) 84m_____
d) 68m _____   e) 117m_____   f) 135m_____

15

Rewrite each addition problem as multiplication and solve.

$9 + 9 + 9 + 9 + 9 =$_____

$3 + 3 + 3 + 3 + 3 + 3 + 3 =$_____

$6 + 6 + 6 + 6 + 6 =$_____

$4 + 4 + 4 =$_____

16

Complete the multiplication facts in the wheels below. Some answers have already been filled in.