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 = _____
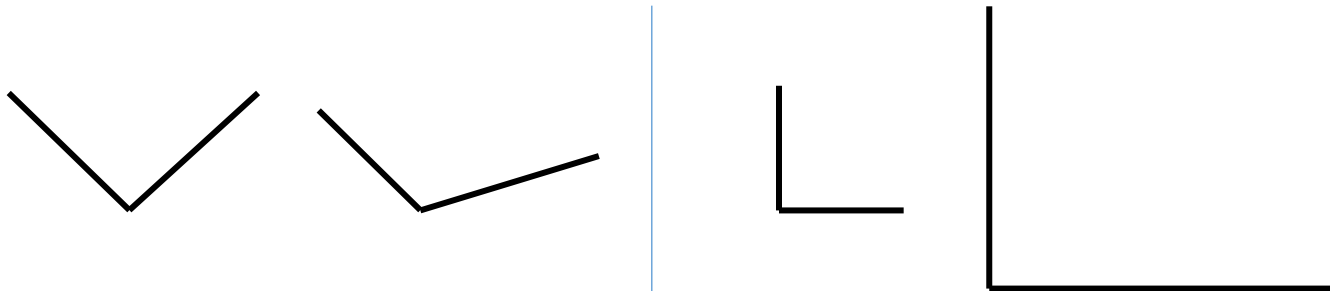
10dm – 86cm = _____

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 =

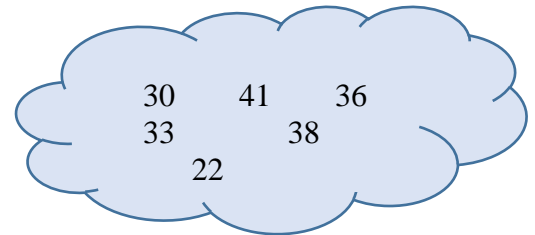**10** Pick a number from the cloud to make these statements correct. Use each number only once.

____ < 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 × 10 =   22 × 10 =   16 × 10 =   58 × 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.