school nova™ Math 3   Homework 2

1 Write down equalities and find their values:

a) Subtract 38 from 274 _____

b) Add 317 to 83 _____

c) Subtract 70 from the sum of 420 and 150 _____

d) Add a sum of 248 and 52 to the difference of 649 and 34 _____

2 Express in meters, decimeters, and centimeters:

485 cm = 4m + 8dm + 5cm   5 m 62 cm = _____

807 cm = _____   350 cm =_____

3 Compare, using <, > or =.

9 dm8 cm ____ 1 m   15 cm – 5 cm ____ 1 dm

100 cm ____ 1 dm   100 cm + 100 cm ____ 1m 9 dm

4 a) Write down ALL two-, and three-digit numbers that can be written using the digits
5 and 0. Arrange all these numbers in **descending order (from greatest to smallest).**

_____

b) Write down ALL two-, and three-digit numbers that can be written using the digits 5

and 1. Arrange all these numbers in **ascending order (from smallest to greatest).**

_____

5 "Lazy caterer" cuts up the pizza pie and he doesn't care about the size or shape of the

pieces.

If "Lazy caterer" cuts the pizza once, the maximum number of pieces gets is 2. It is
easy to see, that if he cuts it twice, the maximum number of pieces is 4 (as can be seen
above). But it can also be 3.

a) Draw the picture of a pizza pie and show how he can cut the pizza in three
pieces using 2 cuts.

b) Draw the pictures of a pizza pies. Show how can he gets 6 pieces with 3 cuts. Can he get 7 pieces with 3 cuts?

6 How many hours and minutes are between the first and the second times?

First time:	**Second time:**	**Elapsed time:**
10 am	1 pm	_____
3:10 pm	6:30 pm	_____
4:40 am	8:10 pm	_____
3:22 am	6:15 pm	_____

7 Write down the expressions (equalities or inequalities):

a) M is less than 9 plus 2 _____   b) N is bigger than 9 plus 6 _____

c) S is equal to 10 plus 3 _____   d) 25 minus Y is less than P _____

8 There are three boxes: one with apples, another with pears, and the third with bananas. However, the label on each box does not match its content. We know that the box with the label "Bananas" contains pears. Which box contains apples?

Apples   Bananas   Pears

9 Solve number puzzle:

```
      A
  +   A
     MA
    S P A
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```
    ME
  + ME
   BEE
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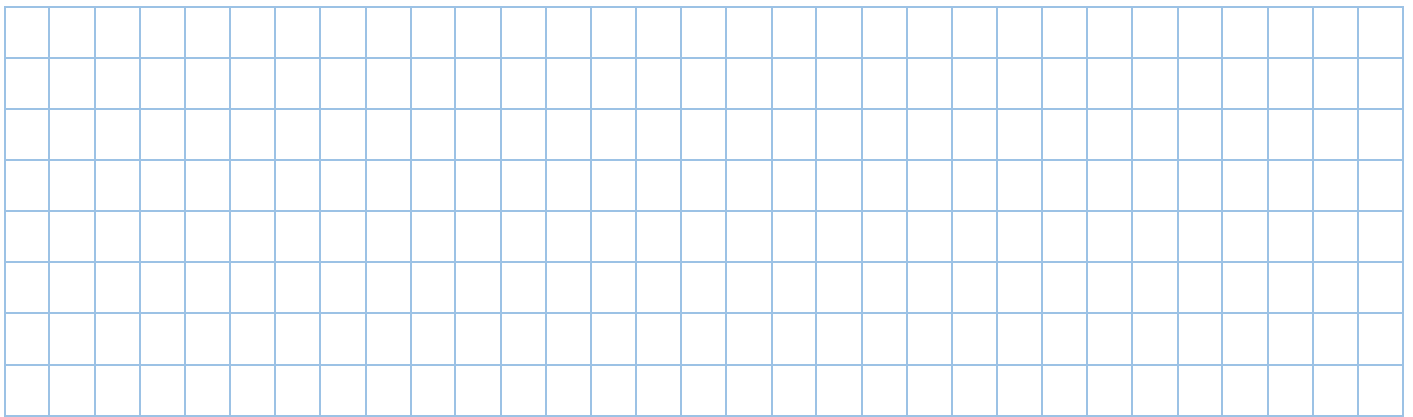A = _____   M = _____   S = _____   B = _____   M = _____ E = _____

10 Solve for x using diagrams and check your answer:

$$x + 35 = 49 \qquad 211 - x = 102 \qquad x - 288 = 465$$

11 Open the parentheses and simplify the answer:

(a + 20) - a = _____

(b + 10) – (a + b) _____

(a - b – d) + (b + d) =_____

(25 – m) + (10 + m) =_____