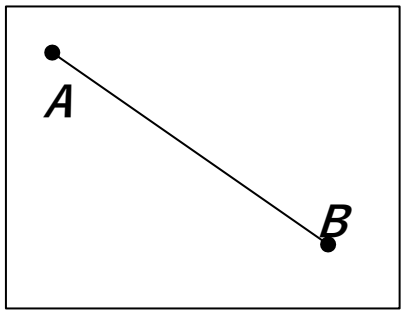
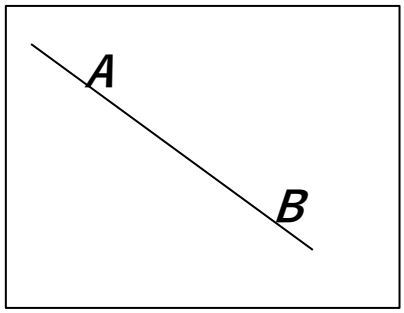
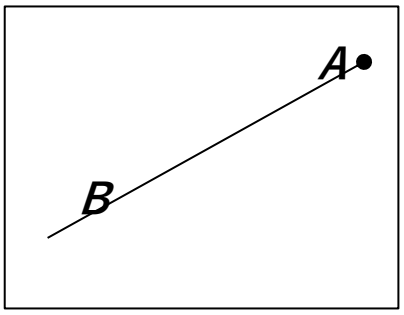
Math 3 Homework 4

1 Connect the names with the appropriate drawings.

Straight line $\overleftrightarrow{AB}$	Segment $\overline{AB}$	Ray $\overrightarrow{AB}$







2 Two small boxes have the same amount of balls. One big box has as many balls as the other two together. Write an equation to show how many balls are in the big box.

L balls

L balls

X balls

_____

_____

3 Calculate using an example.

520	302	350	326
+303	+ 239	+ 420	+ 201
12	101	228	134
835			

4 Regroup where necessary and find the results for each expression without calculations:

12 + 8 – 12 = ____

29 + 54 – 29 – 54 = ____

49 – 11 + 11 – 49 = ____

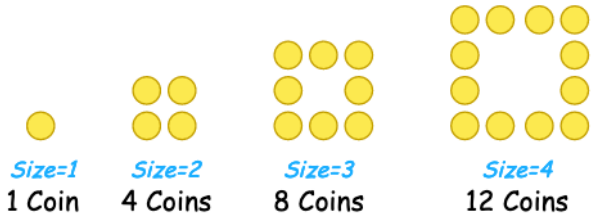
47 + 47 + 81 – 81 – 47 + 49 – 49 = ____

45 – 38 + 38 = ____

28 + 69 – 69 – 17 + 17 + 53 – 53 = ____

5

Patterns. We did one such pattern in the class. Here is another example:



How many coins do you need for Size=5?

Take coins and make a diagram on your table and then draw the picture here.

6

Now try and make your own patterns!

7

Solve for x:

$x - 29 = 4$ $25 + x = 405$ $630 - x = 27$

8 Draw a line segment $\overline{AB}$, place a point C in between points A and B. Write down the name of each line segment you get. Place another point D between points A and C. Name all line segments you get.

A B

9 Order the following list of numbers from least to greatest (ascending order), find a rule and write down the 10^{th} term of the sequence:

a) 15, 5, 20, 10, _____

Rule is: _____

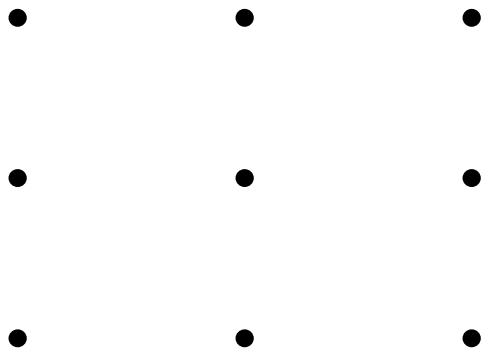
10^{th} term is: _____

b) 33, 11, 22, _____

Rule is: _____

10^{th} term is: _____

10 Challenge yourself! Without lifting up you pencil connect 9 points with 4 straight line segments. Each point should be included and none of the points should be included twice. Practice on the separate piece of paper first!



11 Number the order of operations and find the values of each expression (use the graph paper below to calculate!)

a) 999 – (35 + 231) =

b) 321 – (45 + 56) + 251 =

c) (239 + 291) – 530 =

d) (633 – 93) – (123+417) =

12 Convert the units:

a) 10dm = ___ cm

b) 500 cm = __ m

c) 30m = _____ dm

d) 2m = ____ dm = ____ cm

e) 40dm = ___ m = cm

f) 12m = _____dm = cm

13 Solve for x and check your answers. Use a diagram if you need.

a) x + 91 = 123

b) x – 91 = 123

c) 123 – x = 91