Galaxy of Ohlow Problems #2

Build an arrow road from 0 to 123 using +100, +10, and +1 arrows.

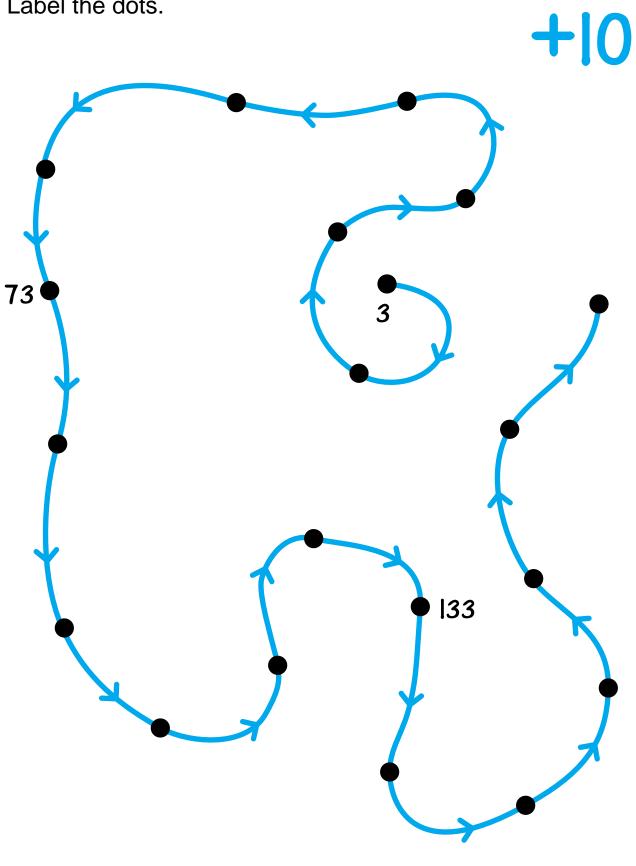
+100 +10 +1 Complete this addition table.

+	10	20	30	40
10				
9				
18				

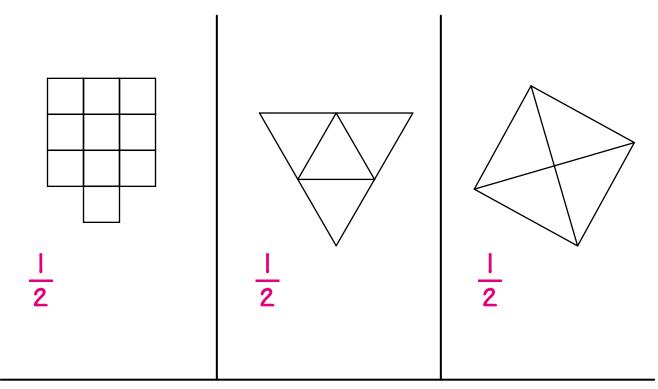
Complete this subtraction table.

	7	10	5	6
15				

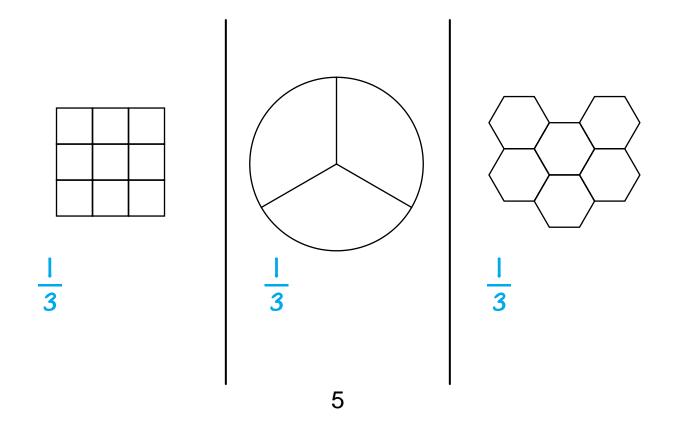
Label the dots.



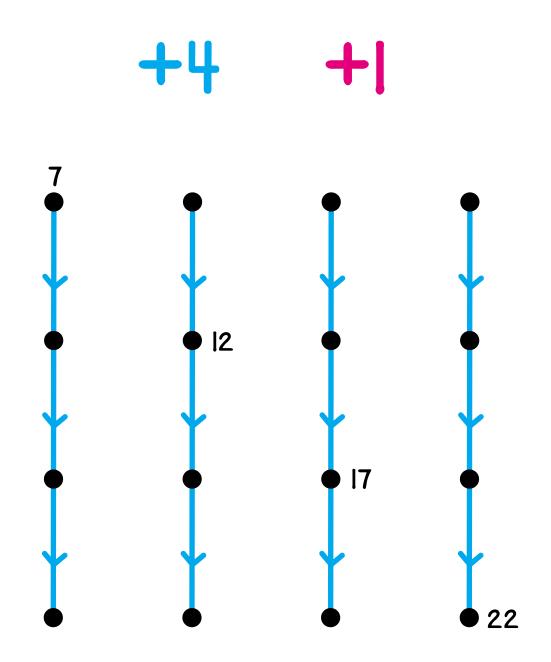
Color one-half of each shape red.



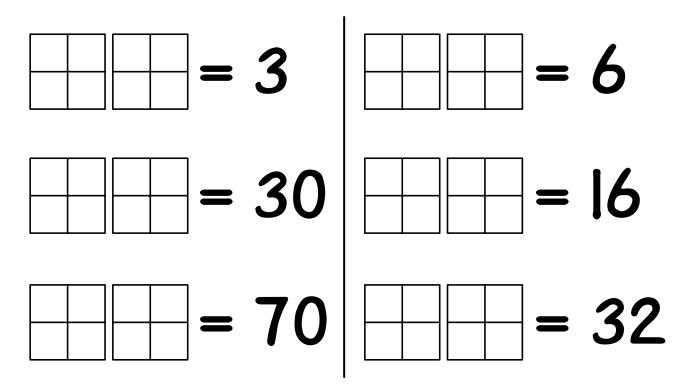
Color one-third of each shape blue.



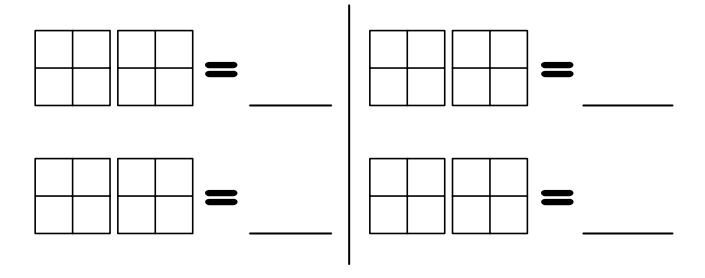
Label the dots. Draw all the missing +1 (red) arrows.



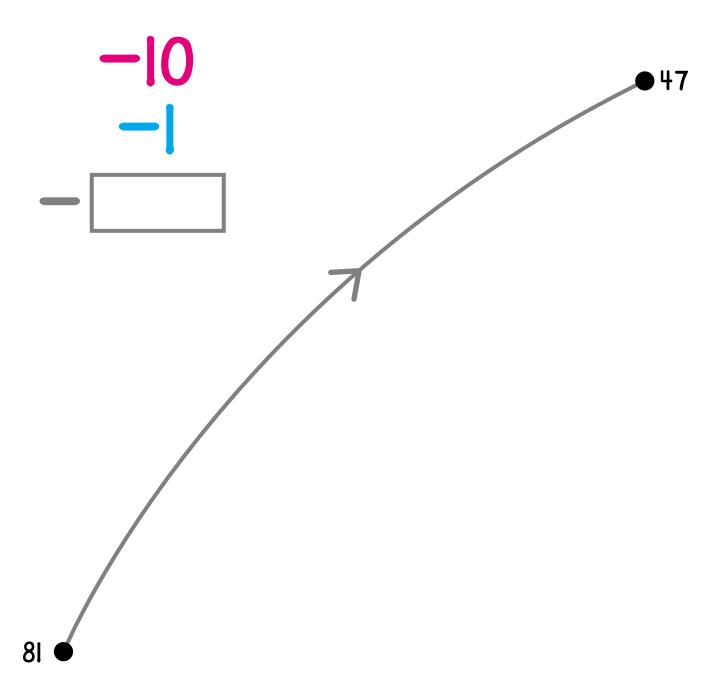
Put these numbers on the Minicomputer using one positive and one negative checker for each.



Put any number you like on the Minicomputer using one positive and one negative checker.

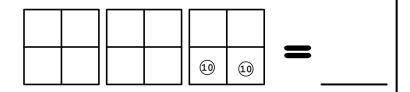


Build an arrow road from 81 to 47 using -10 and -1 arrows. Fill in the box for the gray arrow.

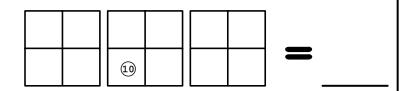


Write a calculation shown by the gray arrow.

Complete.

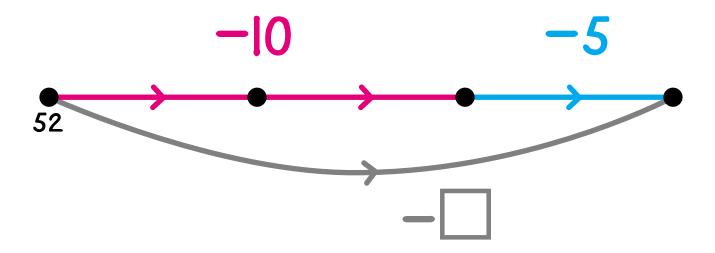


$$10 \times 3 =$$

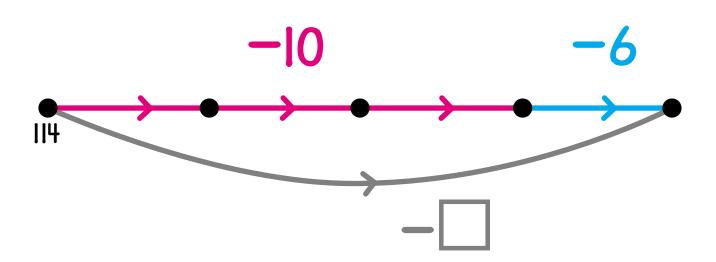


$$10 \times 20 =$$

Label the dots. Fill in the box for each gray arrow.



Write a calculation shown by the gray arrow.



Write a calculation shown by the gray arrow.

Five children are playing a game. They record their scores with tally marks.

Gary	Emanuel	Dawn	Melodie	Otis
## ##	HH HH	## ##	HH HH	## ##
## ##	HH	## ##	HH HH	## ##
		HH	HH HH	

List the children in order from lowest score to highest score.

Lowest	 	 Highest

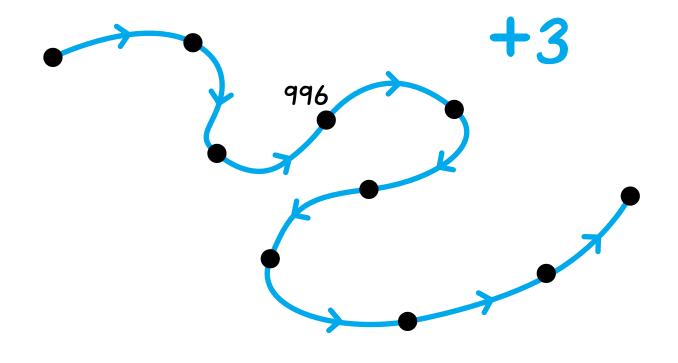
Suppose the children play with two teams, boys (Gary, Emanuel, Otis) and girls (Dawn, Melodie).

Otis has to leave the game and wants to share his points equally among the other four players. How many points should he give to each other person?

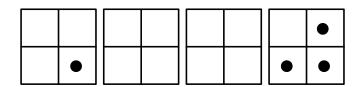
Build an arrow road from 0 to 32 using 10x and +1 arrows.



Ling is a secret number. Ling is in this arrow picture.



Ling can be put on this Minicomputer by taking off exactly one checker.

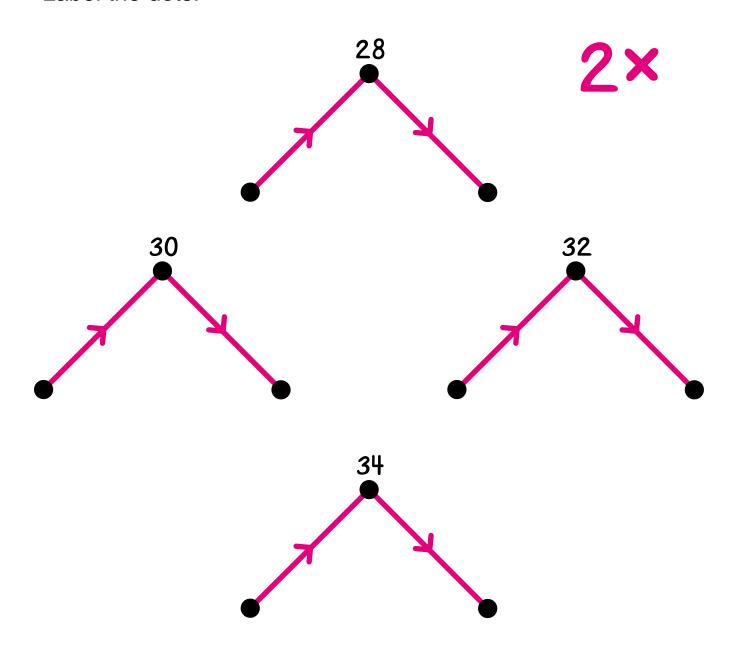


Who is Ling? _____

Show a way to have each amount of money in change. Many solutions are possible. One is done for you.

Quarters	Dimes	Nickels	Pennies	Total Amount
	10¢) 10¢)	5¢	1¢	46¢
				17¢
				65¢
				\$1.00
				\$0.39
				\$0.91

Label the dots.



$$38 \div 2 =$$

One Lunch 2 slices bread 4 slices ham 7 carrot sticks 12 chips 3 cookies

How much of each ingredient do you need to make:

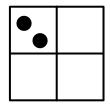
Three	Lunches
	slices bread slices ham carrot sticks chips cookies

Five L	unches
	slices bread slices ham carrot sticks chips cookies

Ten L	unches
	slices bread slices ham carrot sticks chips cookies

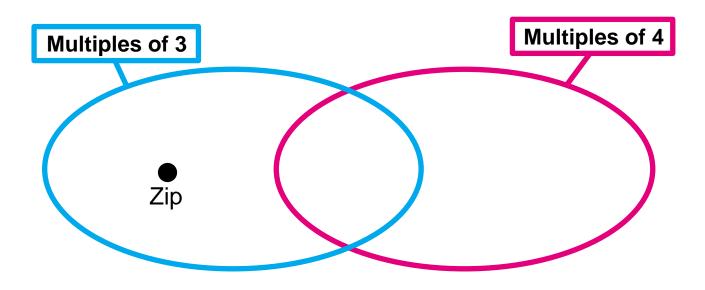
Zip is a secret number.

Zip can be put on this Minicomputer by adding one more regular checker.



Zip could be _____, ____, or _____.

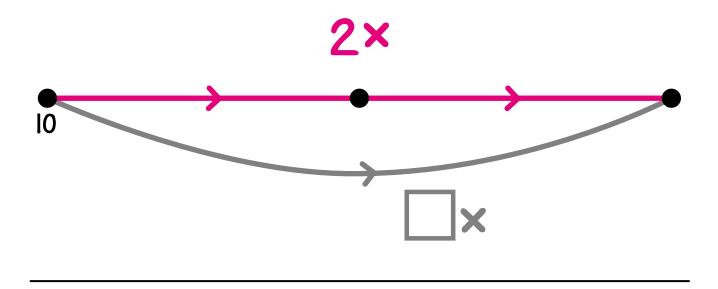
Zip is in this string picture.

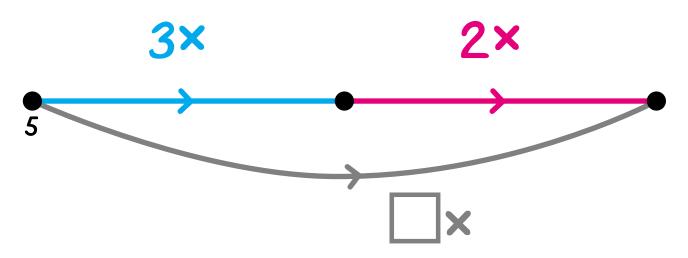


Who is Zip? _____

Put these numbers on the Minicomputer.

Label the dots. Fill in the box for each gray arrow.





Use the pictures above to help with these calculations.

Complete this addition table.

+	5	0	2	10
Î				
5				
2				
3				

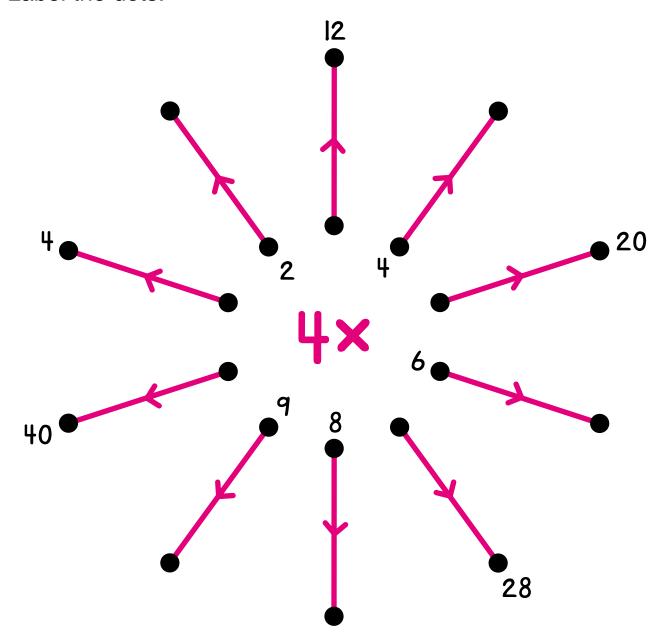
$$10 + \widehat{4} =$$

$$\widehat{5} + \widehat{5} = \underline{\hspace{1cm}}$$

$$0 + \widehat{8} =$$

$$10 + 3 =$$

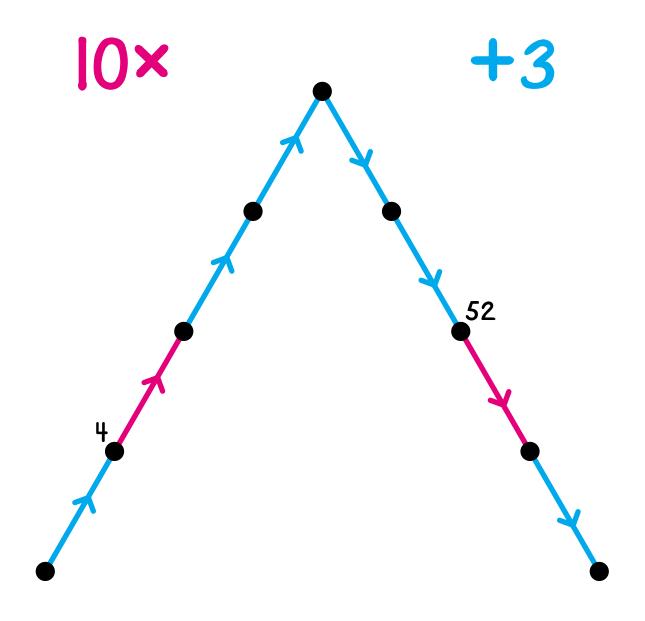
Label the dots.



$$4 \times 5 =$$

$$4 \times 0 =$$

Label the dots.



Complete these number sentences.

$$(7 + 8) \times 2 =$$

$$7 + (8 \times 2) =$$

$$8 + (7 \times 2) =$$

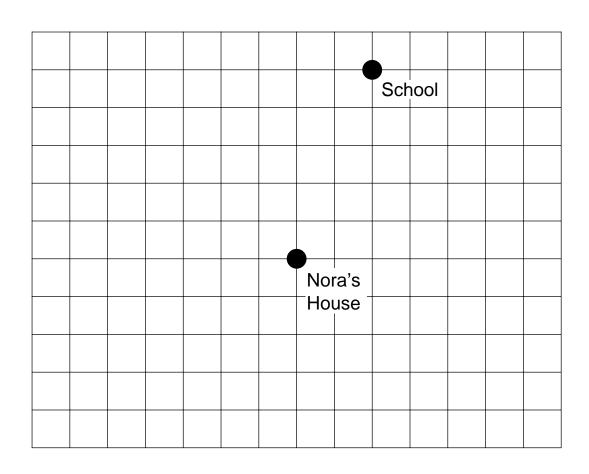
$$(3 \times 5) - 4 =$$

$$3 \times (5 - 4) =$$

$$(3 \times 4) - 5 =$$

Help Nora find Sonja's house by using these clues.

Clue 1 Sonja lives 4 blocks (taxi-distance) from Nora.

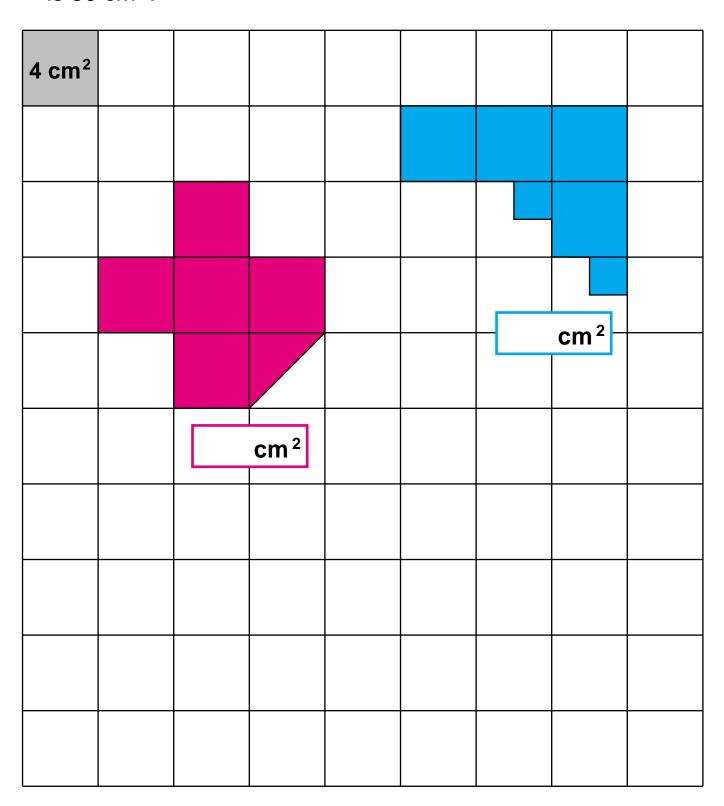


Clue 2 Sonja only has to walk 3 blocks to school.

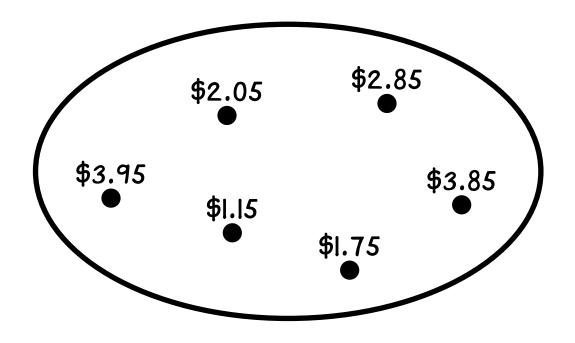
Clue 3 Nora can get to Sonja's house going in one direction.

Label a dot for Sonja's house.

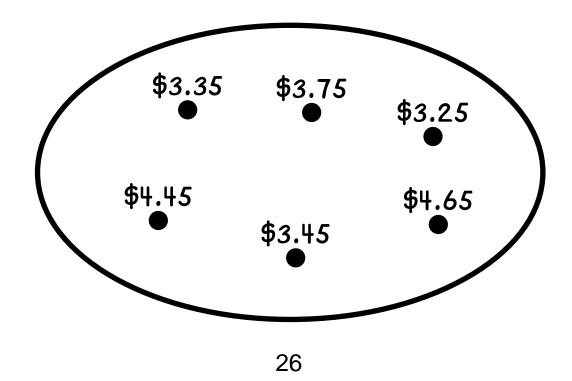
Find the area of each shape. Color a shape whose area is 30 cm ².



Lisa buys two flags and spends exactly \$5. Draw one string around the prices of these two flags.



Bryce buys two books and spends exactly \$8. Draw one string around the prices of these two books.



Build an arrow road from 0 to 503 using 10x and +1 arrows.



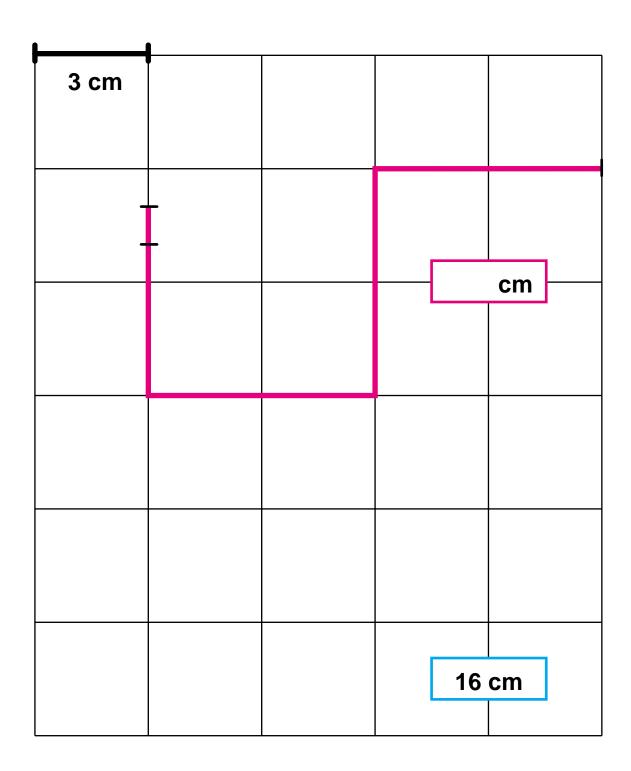






Find the length of the red zigzag path.

Draw a blue zigzag path that is 16 cm long.



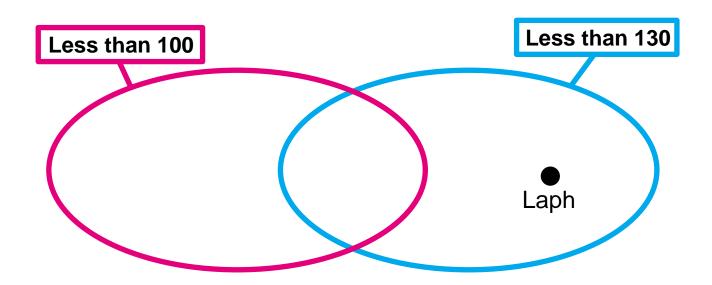
Circle all the multiples of 8 in red. Circle all the multiples of 9 in blue.

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	5 8	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99
100	101	102	103	104	105	106	107	108	109

What do you notice about your picture?

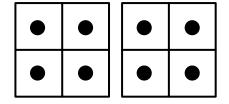
Are any numbers circled both red and blue?

Laph is a secret number. Laph is in this string picture.



What is the greatest whole number Laph could be? ______ What is the least whole number Laph could be? ______

Laph can be put on this Minicomputer by taking off exactly one checker.



Who is Laph? _____

Put in parentheses to get as small a number as possible.

$$5 + 3 \times 2 =$$

$$4 \times 4 + 6 =$$

$$7 \times 2 - | =$$

$$8 - 4 \times 2 =$$

$$9 + 3 \times 5 =$$

Put the six number cards 1 2 3 4 5 6 in the spaces of this subtraction problem. Use all the cards, each card once.
What is the greatest difference you can get? Explain. — □ □ □ — □ □ □
What is the least positive difference you can get? Explain. — □ □ □ — □ □ □
Can you get a difference between 300 and 400? Explain. — □ □ □ □ — □ □ □ □
Can you get a difference of 406? Explain. — □ □ □ □ — □ □ □ □
20