SC	nova 🔊 🛊	Math 3	Homework 12
1	Compare expressions $(<, >, =)$: 7 × 7 5 × 9 4 × 9 5 × 6 4 × 9 5 × 6 + 5 3 × 8 4 × 4 + 8	$25 + 25 + 4 \times 7 \dots = 11 \times 4 \dots 6$ 12 + 12 + 12	$25 11 \times 7$ 3 × 9 5 × 6 + 5 12 + 12 8 × 5 + 8
2	 Mark two distinct points A and B of the following triangles (Draw the triangle a) △ABC- a right triangle b) △ABD - an obtuse triangle c) △ABE - an acute triangle 	on the page. Choose a riangles with differen	additional points C, D, E, so that you will get at colors):
3	State all possible names for each fi	gure below	

	HW 12 Perimeter.	Parenthese	es. Equ	ations	w 家				
.	a) Use any 3 of these digits: 1, 2, 3 and 4 in the spaces below to make the answer 72. = 72								
	b) Use any 3 of these digits: 1, 2, 3 and 4 in the spaces below to make the largest possible answer. = (is as large as possible)								
	c) Use any 3 of these digits: 1, 2, 3 at $x = (is as s)$	nd 4 in the	space	s below)	to mak	e the sma	allest po	ossible a	answer.
5.	The rectangle consists of the squares. The side of the small square is 1 cm. Find a perimeter of the rectangle.]	1 cm 1 c	<u>m</u>
.	The square was divided on 3 rectangle the square	es with gi	ven pe	rimeters	s (see th	the drawin $P = 18$ of $P = 1$	g). Fin	d the pe	erimeter o
						P = 20	cm		
						P = 26	cm		
7	Long multiplication with regrouping $39 \times 5 =$	5	57 × 6	6 =			(93 × 7	' =
				1		<u> </u>			1

	Perim	leter. Parentheses.	Equations	
			1	
Solve for	x and check your ans	wers:		2. 42
x + (2)	(25 - 14) = 10 + 29		81 - x - 11 =	25 + 13
The princ	ipal of a school with 4	184 students collec	ted the information about th	e numbers of student
who wear	glasses. All results w	ere entered into the	e table below:	5.665
	Always wear glas.	ses somenmes w	eur glussestvever weur glus	
Boys	40		161	
Girls	36	55	144	
1) A	re there more boys or	girls in the school	?	
a) An e) Ha f) Ha	ow many of the studer ow many of the studer	nts wear glasses <i>so</i> nts <i>never</i> wear glas	ometimes?sses?	
d) Ane) Hof) Hog) An	ow many of the studer ow many of the studer re there more boys or	nts wear glasses <i>so</i> nts <i>never</i> wear glas girls in the school?	ometimes? sses? ?	
d) Ane) Hof) Hog) AnWhat num	ow many of the studer ow many of the studer re there more boys or nber does <i>n</i> represent	nts wear glasses <i>so</i> nts <i>never</i> wear glas girls in the school?	elow?	
d) An e) He f) He g) An $30 + n = 1$	ow many of the studen ow many of the studen re there more boys or nber does n represent to 130 n	ints wear glasses <i>so</i> ints <i>never</i> wear glassing in the school $\frac{1}{2}$ in each equation be +5 = 35	elow? n - 3 = 67	
d) An e) He f) He g) An What num 30 + n = 1 n =	ow many of the studen ow many of the studen re there more boys or nber does <i>n</i> represent = 130 n n	ints wear glasses <i>so</i> ints <i>never</i> wear glass girls in the school: in each equation be + 5 = 35 =	elow? n-3=67 n=	
d) An e) He f) He g) An What num 30 + n = 1 n =	ow many of the studen ow many of the studen re there more boys or hber does n represent to 130 n n each expression below	This wear glasses so this never wear glass girls in the school? in each equation be + 5 = 35 = when $n = 20$	elow? n-3=67 n =	

	HW 12	Perimeter. Parenthe	eses. Equations		
12	Evaluate an expression	$0 \times a \perp 3$ for each vs	lue of <i>a</i> :		
12	if a = 9	if a =	5	if $a = 20$	
13	a) While helping their n kitchen cabinet and Juli in the kitchen cabinet?	nother to unload a dis a put 4 plates on the e	hwasher, Victoria each of 3 shelves. I	put 5 plates on each o How many plates did l	f 3 shelves of the poth of them put
	b) James has made 10 o as James. How many or	rigami cranes. Tom, l igami cranes all four	Mary and Nick hav children made tog	/e each made as many ether?	origami cranes
	c) Kathy had a piece of times as long as the piece How long was the origination	the ribbon and she cu ce that was cut off. He nal ribbon?	t 9 meters from it. ow long is the rem	The remaining piece aining piece?	of the ribbon is 5
14	Onen narentheses and	simplify the express	sions:		ANK.
	300 (a + b) =	simplify the express	300 (a + 2) + (b + 2)	100) -	
	300 - (a + b) - 29 - (5 + b) - 300 - (5 + b) - 300 - (5 + b) - 300 - 3		300 - (a + 2) + (0) 29 - (5 + a) + (a + b)	– 100) – + 15) –	
	20 = (0 + 0) =		20 = (3 + a) + (a + 3) = (2 - 1) =	- d) =	
	65 - (a + b + 5) =		65 - (d + 5 - a) + 65 - (d + 5	(d - a + b) =	
	Solve for <i>x</i> :				
15	(35 - x) + 45 = 90		(x + 351)	-290 = 410	
			1		

HW 12

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Perimeter. Parentheses. Equations



A pharmacy has an old balance scale, which has only two measuring weights: 30 grams and 5 grams. A pharmacist has to divide 300 grams of powder medicine into 3 small bags – 150 gram in the 1^{st} bag, 100 grams in the 2^{nd} bag and 50 grams in the 3^{rd} bag. How can he do it if he can only weigh 3 times?



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Work on your snowflake pattern. Instructions below!



HW 12 Perimeter. Parentheses. Equations



Instructions, Part 1 – Making the Template:

- Use compass to draw a circle at the center of the paper. Place the compass point at the center of the paper and carefully rotate, dragging the pencil tip completely around the point to create a circle.
- As shown above, keeping the compass at the same radius setting, align the point so that it is on the edge of the original circle. Draw a second circle. This will intersect the original circle twice as well as pass through its center point.
- Next, align the compass point on one of the intersections of the first and second circle as shown above. Draw a third circle.
- Repeat, aligning the compass point on the intersections of the original circle and the next circle until you have made it all the way around the original center circle.
- Draw a line from the center of the original circle to each of these intersections and about 1/2"-1" beyond.
- You have now divided the circle into six even segments! You can continue to divide radially until the circle is divided into 12 equal fractions as shown above.

Instructions, Part 2 – Using the Template:

- Use the template created in Part 1 by overlaying a sheet of trace paper and securing in place with a bit of tape at the corners.
- Trace the basic radial symmetry in metallic or white paint pen adding freehand details as you go.
- Create a snowflake by making sure you go all the way around the snowflake with individual detail repeating the pattern.
- Remove from template and hang in a window or overlay on dark construction paper to "reveal" the snowflake patterns. If hanging in a window, you can watch the striking changes in contrast as lighting changes throughout the day.
- PLEASE SUBMIT THE PICTURES OF YOUR SNOWFLAKES!

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Please don't forget to complete the multiplication exercise! Are you getting at it?

- 1) Put the timer on for three minutes and solve as many as you can!
- 2) Take a color pencil or pen and complete the rest.

HAVE A FUN! HAPPY HOLIDAYS TO YOU AND YOUR FAMILY!

