Writing and Solving Equations

1) During the snow storm Ryan threw snowballs at me. Greyson threw twice as many snowballs as Ryan. Matt threw 8 more snowballs than Ryan. Altogether they threw 28 snowballs at me.

Write an **expression** to represent the number of snowballs thrown by each boy.

Ryan	Greyson	Matt
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Write an **equation** for the total number of snowballs thrown and solve.

Equation:

Solve:

Plug back in find the number of snowballs thrown by each boy.

 Ryan
 Greyson
 Matt

Does your answer make sense?

Check:

2) Sydney loves eating tre	ats. Last month she ate thr	ree times as many treats as Stella. Ernie at	e
five more treats than Sydr	ney. Altogether they ate 75	treats.	
Write an expression to re	epresent the number of trea	ats eaten by each dog.	
Stella	Sydney	Ernie	
Write an equation for the	e total number of treats eate	en and solve.	
Equation:			
Solve:			
Plug back in find the num	ber of treats eaten by each	dog.	
Stella	Sydney	Ernie	
		ells on Monday. She collected 12 more she	
on Tuesday than she did c	n Monday. She collected 5	fewer shells on Wednesday than she did o	n
Monday. She had a total o	f 31 shells after the three d	lays.	
Write an expression to re	epresent the number of she	lls she collected each day.	
Monday	Tuesday	Wednesday	
Write an equation for the	e total number of shells coll	ected and solve.	
Equation:			

Solve:

Plug back in find the number of shells collected each day.

Monday _____

Tuesday _____ Wednesday _____

+) Louie is univing to m	orida. He drove twice as r	nany miles on the second day. H	e drove 300
fewer miles on the third	day than he drove on the	second day. He drove a total of	900 miles.
Write an expression to	represent the number of r	niles he drove each day.	
Day One	Day Two	Day Three	
Write an equation for th	ne total number of miles d	riven and solve.	
Equation:			
Solve:			
_	nber of miles driven each	-	
Day One	Day Two	Day Three	_
5) Chris is an avid fisher	man. He caught four few	er bass than pickerel. He caught	twice as many
perch as bass. He caugl	nt a total of 20 fish.		
Write expressions to re	present the number of ea	ch type of fish caught.	
Bass	Pickerel	Perch	
Write an equation for th		ght.	
-	ne total number of fish cau	ght.	
Write an equation for th Equation: Solve:		ght.	
Equation:		ght.	
Equation:		ght.	

Plug back in find the number of each type of fish caught.

 Bass
 Pickerel
 Perch

6) In order to make a	certain type of quilt you need t	hree types of fabric. You need two	more
yards of the flowered	fabric than the solid fabric. You	need three times as much striped	fabric as
flowered fabric. You n	need a total of 15 $\frac{1}{2}$ yards of fal	oric.	
Write expressions to	represent how much of each ty	pe of fabric is needed.	
Flowered	Solid	Striped	
Write an equation for	• the total number of yards of fa	bric needed.	
Equation:			
Solve:			
Plug back in find out h	ow much of each type of fabric	is needed.	
Flowered	Solid	Striped	
7) Jimmy needs to fill	up his race cars. His Corvette	needed 5 fewer gallons than his Car	naro.
His mustang needed to three cars.	wice as much gas as his Corvett	e. He needed a total of 52 gallons t	o fill all
Write expressions to	represent the amount of gas ne	eded for each car.	
Camaro	_ Corvette	Mustang	_
Write an equation for	• the total number gallons need	ed.	
Equation:			
Solve:			
Plug back in find out h	ow much gas was needed for e	ach car.	
Camaro	_ Corvette	Mustang	_

8) Matt is searching fo	r bugs under the logs in the ba	ackyard. He found three times as many ar	nts
as centipedes. He foun	d three fewer spiders than an	ts. He found a total of 32 insects.	
Write expressions to r	represent the number of each	type of insect.	
Ant	Spider	Centipede	
Write an equation for	the total number of insects.		
Equation:			
Solve:			
Plug back in find out ho	ow many of each type of insect	t was found.	
		Centipede	
9) Gail is playing three	e different sports. She plays so	occer for one hour less than she plays	
		she plays football. She plays sports for a	
total of ten hours.			
Soccer	Lacrosse	Football	
		10005411	
Write an equation for	the total number of hours play	zing sports	
Equation:	the total number of nours play	ing sports.	
Solve:			
501ve.			
Plug back in find out he	ow many hours she spends pla	ying each sport.	
Soccer	Lacrosse	Football	

10) Greyson loves tru	cks, cards, and busses. He has	twice as many trucks as busses. H	le has 8
more cars than trucks.	. He has a total of 68 vehicles.		
Trucks	Cars	Buses	
Write an equation for	the total number of vehicles G	reyson has.	
Equation:			
Solve:			
Plug back in find out h	ow many of each vehicle he ha	c	
_	Cars		
11 ucks	Gars	Duses	
had in December. We 75 inches during the tl	have 9 fewer inches in January	hree times as much snow in Febru as we had in February. We had a February	total of
Write an equation for	• the total number of inches of s	now	
Equation:	the total number of menes of t		
Solve:			
Plug back in find out h	ow many inches of snow we go	t each month.	
December	January	February	

	are training for a marathon. miles than Annya. Altogeth	Annya runs 7 more miles than Patti	this
	Patti		
Write an equation for the Equation: Solve:	total number of miles the th	ree girls ran.	
Plug back in find out how r	nany miles each girl ran.		
Annya	Patti	Kim	
	s. She bakes three times as m of 41 cookies.	niser. She bakes four more oatmeal nany chocolate chip cookies as oatme Oatmeal	
Write an equation for the	total number of cookies bak	ed.	
Equation:			
Solve:			
Plug back in find out how r	nany of each type of cookie s	he baked.	
Chocolate Chip	Sugar	Oatmeal	