 A flat rectangular piece of aluminum has a perimeter of 58 inches. The length is 7 inches longer than the width. Find the width. 					
A) 29 inches	B) 11 inches	C) 18 inches	D) 25 inches		
	2) Find the amount of money in an account after 3 years if \$4500 is deposited at 5% annual interest compounded				
semiannually. A) \$5209.31	B) \$5223.40	C) \$5218.62	D) \$5226.63		
-	t can balance the books twice How long would it take the e				
A) 20 hr	B) 5 hr	C) 25 hr	D) 15 hr		
4) Frank can type a report in together?	4 hours and James takes 5 hou	urs. How long will it take t	the two of them typing		
A) 20 hr	B) 9 /20 hr	C) 5 hr	D) <u>20</u> hr		
 Find the amount of money monthly. 	in an account after 6 years if s	\$1600 is deposited at 8% ar	nnual interest compounded		
A) \$2539.00	B) \$2581.60	C) \$2573.50	D) \$2561.65		
 6) Two cars leave a city and head in the same direction. After 5 hours, the faster car is 55 miles ahead of the slower car. The slower car has traveled 215 miles. Find the speeds of the two cars. A) 32 mph and 43 mph B) 110 mph and 121 mph C) 45 mph and 56 mph D) 43 mph and 54 mph 					
 7) A carpet company charges \$4.00 per square yard of carpet, plus \$50 for labor. Let L and W denote the length and width of the carpet, given in feet. Give an expression for the cost, in dollars, to purchase and install carpet. A) Total cost = \$0.48(LW) + \$50 B) Total cost = \$0.40(LW) + \$40 C) Total cost = \$0.54(LW) + \$50 D) Total cost = \$0.44(LW) + \$50 					
 8) A twin-engined aircraft can fly 1260 miles from city A to city B in 5 hours with the wind and make the return trip in 7 hours against the wind. What is the speed of the wind? A) 54 mph B) 18 mph C) 72 mph D) 36 mph 					
 9) Inclusive of a 7.2% sales ta added. (Round to the near 	x, a diamond ring sold for \$23 est cent, if necessary.)	58.40. Find the price of the	e ring before the tax was		
A) \$2528.20	B) \$2188.60	C) \$169.80	D) \$2200		
10) You are paid \$8 for the first two hours and \$35 for each additional hour and you work for more than two hours. Give an expression for your pay P for h hours.					
A) $P = 8 + 35(h - 2)$	B) $P = 8 + 35(h - 1)$	C) P = 16 + 35h	D) P = 16 + 35(h - 2)		

11) Find the amount of money in an account after 10 years if \$4400 is deposited at 6% annual interest compo			
annually. A) \$8005.35	B) \$7879.73	C) \$7946.89	D) \$7981.68

- 12) The Family Fine Arts Center charges \$23 per adult and \$15 per senior citizen for its performances. On a recent weekend evening when 484 people paid admission, the total receipts were \$8500. How many who paid were senior citizens?
 A) 239 senior citizens
 B) 329 senior citizens
 C) 155 senior citizens
 D) 245 senior citizens
- 13) A bank teller has 52 \$20 and \$5 bills in her cash drawer. The value of the bills is \$455. How many \$20 bills are there?
 A) 39 \$20 bills
 B) 15 \$20 bills
 C) 37 \$20 bills
 D) 13 \$20 bills

14) A volunteer wants to crochet beach hats and baby afghans for a church fund-raising bazaar. She needs 3 hours to make a hat and 4 hours to make an afghan and she has 12 hours available. Write an inequality that describes the situation and use the inequality to decide whether she can make 7 hats and 8 afghans in the time allowed.

Let x represent the number of hats and y the number of afghans that she makes.

A) 3x + 4y ≤12; no	B) 3x + 4y ≤ 12; yes	C) 3x + 4y ≥ 12; yes	D) 3x + 4y ≥ 12; no
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15) The charge for renting a video is \$2 plus \$3 per day of renting. Give an expression for the cost C of renting a video for n days.

16) A volunteer wants to crochet beach hats and baby afghans for a church fund-raising bazaar. She needs 5 hours to make a hat and 2 hours to make an afghan and she has 10 hours available. Write an inequality that describes the situation and use the inequality to decide whether she can make 2 hats and 2 afghans in the time allowed. Let x represent the number of hats and y the number of afghans that she makes. A) $5x + 2y \ge 10$; yes B) $5x + 2y \le 10$; no C) $5x + 2y \ge 10$; no D) $5x + 2y \le 10$; yes

17) A ball is thrown downward from a window in a tall building. Its position at time t in seconds is given by

$s(t) = 16t^2 + 32t$	where s is in feet. How long will it	take the ball to fall 168 ft?	
A) 3.2 sec	B) 5.8 sec	C) 2.4 sec	D) 2.2 sec

18) The length of a rectangular room is 6 feet longer than twice the width. If the room's perimeter is 180 feet, what are the room's dimensions?

A) Width = 28 ft; length = 62 ft	B) Width = 33 ft; length = 72 ft
C) Width = 42 ft; length = 48 ft	D) Width = 56 ft; length = 124 ft

19) When four times the number is added to 7 times , the result is 33. What is the number?A) 4.7B) 3C) 1D) -4.7

20) One number is 6 less than a second number. Twice the second number is 25 more than 3 times the first. Find the two numbers.

A) -13 and -7 B) -14 and -8 C) -12 and -6 D) 7 and 13

quarterly. A) \$6424.07	B) \$6412.17	C) \$6360.45	D) \$6394.60
A) \$0424.07	D) \$0412.17	C) \$0300.45	D) \$0394.00
22) The sum of two numbe numbers.	rs is 2. If one number is subtra	acted from the other, their dif	ference is -14. Find the
A) -6, 8	B) -6, -8	C) 6,8	D) 4, -2
-	of a triangle is 180°. Find the th third angle is 24° greater than t		ne angle is four times the
A) 10°, 34°, 136°	B) 10°, 40°, 130°	C) 17°, 68°, 95°	D) 26°, 104°, 50°
received a bill from the	der charges its customers \$9 per provider covering a 3-month on-line during that period? (Ro	period and was charged a to	tal of \$61.40. How many
A) The number of m	inutes is 86.	B) The number of mi	nutes is 860.
C) The number of m	inutes is 686.	D) The number of mi	nutes is 536.
dogs and how many ch A) 6 dogs, 3 chicken 26) A train ticket in a certa rider pass for \$18.00 ea	Id chickens on a farm add up to hickens are on the farm if there s B) 4 dogs, 5 chickens in city is \$2.50. People who us ch month. With the pass, each be used so that the total month	are at least twice as many ch C) 3 dogs, 6 chickens e the train also have the optic ticket costs only \$1.75. Dete	ickens as dogs? D) 2 dogs, 7 chicker on of purchasing a frequent rmine the number of times
A) 26 times	B) 23 times	C) 25 times	D) 24 times
27) After a 17% price reduction the nearest cent, if nece	ction, a boat sold for \$27,390. V	Vhat was the boat's price befo	pre the reduction? (Round to
A) \$4656.30	B) \$161,117.65	C) \$33,000	D) \$32,046.30
	boat (at a constant speed) 32 n e, the trip back against the curr B) 6 mph		1 5
, , <u>z</u> p.i	<i>b)</i> 6 mpm	c) c mpn	2) no mpri
hours.	a flat fee of \$35 plus \$30 per h		
A) $C(x) = 35x + 30$	B) $C(x) = 35x - 30$	C) $C(x) = 30x - 35$	D) $C(x) = 30x + 35$
30) The sum of two numbe numbers.	ers is 4. If one number is subtra	acted from the other, their dif	ference is -12. Find the
A) 4, 8	B) -4.8	C) 1.3	D) -48

A) 4, 8 B) -4, 8 C) 1, 3 D) -4, -8

31) A car rental agency charges \$ one week for \$300?	250 per week plus \$0.25 per r	nile to rent a car. How many	miles can you travel in
A) 325 miles	B) 175 miles	C) 200 miles	D) 1200 miles
32) When a number is decreased	5		
A) 600	B) 216	C) 17	D) 360
33) Martha can rake the leaves in will it take them to do the job	5	unger brother can do the job i	-
A) $\frac{42}{13}$ hr	B) 42 hr	C) 7 hr	D) <u>13</u> hr
34) A pet shop has a total of 20 d many birds?	ogs and birds. Altogether the	re are 56 feet. How many dog	s are there and how
A) 7 dogs and 13 birdsC) 9 dogs and 11 birds		B) 8 dogs and 12 birds D) 10 dogs and 10 birds	
35) Tonya is thinking of a numbe A) 552	r, which if you multiply it by B) 114	6 and subtract 11, ends with C) 19	a result of 103. D) 607
36) One maid can clean the house in 3 hours. How long would		0 0 0	n clean the entire house
A) 3 hr	B) 3 hr	C) 5 hr	D) 4 hr
37) When 20% of a number is add	ded to the number, the result	is 60. What is the number?	
A) 10	B) 17	C) 120	D) 50
38) An auto repair shop chargedlabor. If the cost of labor is \$3	•	•	
A) 6.5 hours	B) 6 hours	C) 5 hours	D) 7 hours
39) Jason is thinking of a numberA) 849	r, which if you multiply it by 1 B) 4	12 and add 21, ends with a re: C) 1080	sult of 69. D) 36
A) 043	D) 4	C) 1000	D) 50
40) There are 16 more sophomore the number of sophomores are			dents in this class, find
A) 35 sophomores; 19 junic	ors	B) 54 sophomores; 38 junic	
C) 70 sophomores; 38 junic	ors	D) 19 sophomores; 35 junio	ors