Green

Points	Problem	Solve for x. Check your answer to make sure you are correct!
1	А	$\frac{x}{2} - 9 = -1$
2	В	$-\frac{2}{3}x + 4 = -66$
2	O	$\frac{4x}{5} - 12 = -32$
2	D	$-\frac{3}{4}(2x+5) = 6$
3	E	$5 = -\frac{2}{3}(2x - 6) - 3$
3	F	-3(2x - 5) = 6x - 15
3	G	$-\frac{2}{3}(6-2x) = 6-x$
4	Н	$x - 12 = \frac{5x + 2}{3}$
4	I	$\frac{2x - 5}{5} - 3 = 3x + 4$
5	J	$\frac{1}{4}(3x-9) = \frac{3}{2}(x+6)$

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Answers

Problem		
А	x = 16	$\frac{x}{2} - 9 = -1$
В	x = 105	$-\frac{2}{3}x + 4 = -66$
С	x = -25	$\frac{4x}{5} - 12 = -32$
D	x = -13/2	$-\frac{3}{4}(2x+5) = 6$
E	x = -3	$5 = -\frac{2}{3}(2x - 6) - 3$
F	x = 5/2	-3(2x - 5) = 6x - 15
G	x = 30/7	$-\frac{2}{3}(6-2x) = 6-x$
Н	x = -19	$x - 12 = \frac{5x + 2}{3}$
I	x = -40/13	$\frac{2x - 5}{5} - 3 = 3x + 4$
J	x = -15	$\frac{1}{4}(3x - 9) = \frac{3}{2}(x + 6)$

Orange

Points	Problem	Write the equation of the line containing the two points listed.
1	А	(12 , 10) and (12 , 5)
2	В	(-5 , 4) and (4 , -23)
2	O	(4,9) and (-2,9/2)
3	D	(-3,0) and (1,-6)
3	E	(1 , -5) and (10 , 23/2)
3	F	(-1 , -2) and (2 , 6)
3	O	(-1 , -1) and (4 , 3)
3	Н	(6,-4) and (-1,2)
4	I	(-1 , 10) and (12 , -4)
5	J	(1/4 ,2)and(-5 ,2/3)

Orange

Answers

Problem		
А	x = 12	(12 , 10) and (12 , 5)
В	y = -3x - 11	(-5 , 4) and (4 , -23)
С	$y = \frac{3}{4}x + 6$	(4,9)and(-2,9/2)
D	$y = -\frac{3}{2}x - \frac{9}{2}$	(-3 , 0) and (1 , -6)
E	$y = \frac{11}{6}x - \frac{41}{6}$	(1 , -5) and (10 , 23/2)
F	$y = \frac{8}{3}x + \frac{2}{3}$	(-1 , -2) and (2 , 6)
G	$y = \frac{4}{5}x - \frac{1}{5}$	(-1 , -1) and (4 , 3)
Н	$y = -\frac{6}{7}x + \frac{8}{7}$	(6 , -4) and (-1 , 2)
I	$y = -\frac{14}{13}x + \frac{116}{13}$	(-1 , 10) and (12 , -4)
J	$y = \frac{16}{63}x + \frac{122}{63}$	(1/4 ,2)and(-5 ,2/3)

Blue

Points	Problem	Determine whether the relationship between x and y is linear or nonlinear. Write an equation for the relationship if it is linear. If the relationship is nonlinear explain how you know.							
1	А	х	15 62	17 47	21 17	23			
1	В	х	1 24	2 21	4 18	7 15			
2	С	х	5 -2	-5 3	-13 7	-21 11			
2	D	х	20 18	24 15	30 12	36 10			
3	E	х	2 -5	2 -1	2 7	2 20			
3	F	х	10 4	20 16	30 28	40 48			
4	G	х	560 3	460 5	260 9	-140 17			
4	Н	У	-10 <u>44</u> 7	-5 23 7	5 -19 7	$ \begin{array}{c c} 10 \\ -40 \\ \hline 7 \end{array} $			
5	I	х	30 115	45 110	51 108	171 68			
5	J	х	20 24	41 12	48	62 0			

Blue

Answers

Problem						
	Linear				Γ	
А	15 240	X	15	17	21	23
	$y = -\frac{15}{2}x + \frac{349}{2}$	У	62	47	17	2
	2 2					
		X	1	2	4	7
В	Nonlinear	V	24	21	18	15
				'		
	Linear				12	21
С	1 1	X	5 -2	-5 3	-13 7	-21 11
	$y = -\frac{1}{2}x + \frac{1}{2}$	У	-2		/	11
	<u> </u>					
D	Nonlinear	X	20	24	30	36
	Nommean	У	18	15	12	10
_	Linear	X	2	2	2	2
E	x = 2	У	-5	-1	7	20
	<i>"</i> -					
		X	10	20	30	40
F	Nonlinear	y	4	16	28	48
	Linear		FC0	160	260	140
G		X	560	460	260	-140
	y =02x + 14.2	У	3	5	9	17
	Linose		10		F	10
	Linear	X	-10	-5	5	10
Н	$y = -\frac{3}{5}x + \frac{2}{7}$	у	44 7	23	$\frac{-19}{7}$	<u>-40</u>
	$y = -\frac{1}{5}x + \frac{1}{7}$		7	7	7	7
	Linear					
I		X	30	45	51	171
	$y = -\frac{1}{3}x + 125$	У	115	110	108	68
	3					
	Linear	X	20	41	48	62
J	4 248		24	12	0	
	$y = -\frac{4}{7}x + \frac{248}{7}$	У	24	12	8	0
	, ,					•

Yellow

Points	Problem	Two-Way Tables									
1	А	High school surveyed sports are does 12	Yes No Total		880 120	Role Coach 456 45 501	Total 1336 165 1501				
2	В	A deli offers two types of bread and three ty way table shows the relative frequency of so Saturday afternoon. Complete the table. White Bread Totals 28 32						es of san	dwiches so		
3	С	less than h	True or False, students aged 10-13 are less than half as likely to skip breakfast than students aged 14-17						Eat reakfast 40	Skip Breakfast 14 24	
3	D	Males Females Total	Females 12 16 45 to choose football.								
3	Е	•	What percentage of people surveyed speak only French? Not Sp Tot						Not Frenc 63 2 65	h Total 68 32 100	
4	F	True or False. Women are more likely to drive a sports car than men. Vehicle (SUV)							Totals 60 180 240		
4	G	state their pick one.	An outdoor club conducted a survey of its members. The members were asked to state their preference between skiing and snowboarding. Each member had to pick one. Of the 60 males, 45 stated they preferred to snowboard. 22 of the 60 females preferred to ski. What is the relative frequency that a male prefers to ski?								



Problem	TIMO 14	/ay T	phles										
FIODICIII	Two-W	ay Ta	สมเคว										
				Rol	е								
			Pa	rent	Coach	Total	ı	120 k) high school parents believe competitive				
Α	mortant	Ye	s 8	380	456	1336			_	not impo			*
	001	No) 1	120	45	165		Sport	3 arc i	iot iiipt	Jitanit	111 30110	01.
		То	tal 1	000	501	1501							
	Đ												
	Whit	te Brea		Turkey		Ham 20		Salar	ni	Tota 44			
В	\\\\	at Brea		14				10		36			
Б			id			12		10					
	Т	otals		28		32		20		80)		
С	True. Of students aged 10-13, 14 (students skipping breakfast)/54 (total 10-13 year olds) = 0.26 compared to the 14-17 year olds 24 (skipping breakfast)/36 (total 14-17 year olds) = 0.67								Breakfast 14				
l	Wha	What is your favorite sport to watch on television?						Abou	t 80 w	/omen; :	12 wo	men ou	t of 150 total
D	Foot		Football	Baske	Basebal	1	people chose football as their favorite sport to watch. If there were 1000 total people, 12/150						
	Male	Males 40		22	15								people, 12/150
		Females 12		16	\rightarrow	45	_	= x/1000. Solving for x, x = 80.					
	Tota		52	38	3	60							
		Frenc	h Not French	Tota	ıl								
_	Spanish	5	63	68									ich but not
Е	Not Spanish	30	2	32				Spanish out of 100 total people surveyed a 30/100 = 30%				surveyed and	
	Total	35	65	100									
			A STATE OF THE PARTY OF THE PAR										
			rt Utility icle (SUV)	Sports C	ar T	otals						1 1 .	
	male		21	39		60						•	drive sports orts cars)/180
F	female	e 135		45		180		(total) = 0.2	25 comp	ared t	o men	39 (men driving
	Totals	Totals 156				240		sports cars)/60 (total) = 0.65					
G								mem	bers c	refer ski of the clu 100 = 12	ıb.	it of a to	otal of 120