Math Concepts	Problem Set 2	21 Name	2		
Assigned Thurso No Work Show	lay 2/27, due F n, No Credit (riday 3/6. G iven		Period	
1. Convert each	mixed number	to an improper frac	tion greater than one.		
a) $2\frac{5}{6}$	b) $1\frac{7}{8}$	c) $5\frac{13}{20}$	d) $3\frac{1}{12}$	e) $10\frac{14}{15}$	
2. Simplify each	fraction to a m	ixed number.			
a) $\frac{17}{2}$	b) $\frac{15}{6}$	c) $\frac{42}{5}$	d) $\frac{15}{4}$	e) $\frac{901}{100}$	
3. Complete eaca) If one catb) If three sh	ch of following has 16 whisker	statements. s, then seven cats w e-stalks, then two s	ill have <u></u> whiskers	>-stalks	
b) if three sit	ugs nave six ey	e-starks, then two s	lugs will have <u> </u>	V A	
c) If eight sp	iders have 64 l	egs, then 5 spiders v	will have <u>legs</u> .	6	
4. Jack and Jill were each placing points on the grid shown below. Jack's points are the full circles, and Jill's are the open circles.					● Jack
a) List Jack's ordered pairs.b) List Jill's ordered pairs.				2	
c) Give the coordinates of one more point that Jill could draw so that she has four of her points in a row.					
5. Use the number $2 + 4 + 2$	er line to find y	your answers.	10 2 d)	1 2 3 4 5	6 <i>x</i>
a) -3 + -4 + 2	-8 -7 -6 -5	+ -8 $+ -8$	-10+3 u	8 9 10	
6. Simplify each	algebra expres	sion.			
a) $3 + 5x + x + 4$	b b) m + m + 7 + m +	11 c) $x + y$	y + x + x + 2y - x	
7. Simplify with	PEMDAS.				
a) $40 - 4(10 - 4)$) b	$) 5 + 5 \cdot 3^2 - 2^3$	c) $20 - 20 \div 2 + 3$	d) $2(11-7)^2$	

8. a) Find the probability of spinning an even number, as a percent.

b) Find P(7). Write your probability as a percent.

c) Find the probability of spinning a number less than 3, as a percent.

9. a)
$$25\frac{3}{5} + 15\frac{1}{4}$$
 b) $32\frac{7}{8} - 12\frac{5}{6}$ **c**) $19\frac{2}{3} + 10\frac{11}{12}$

10. Arrange each set from least to greatest.

a) 5, 0, -4, 1, -7 **b**) -1, -9, 0, -12, -3 **c**) $\frac{1}{5}, \frac{1}{3}, \frac{1}{4}$



12. Find the area of each composite rectangle.

a)



4 m



3 m