EXAM 1C*PRE ALGEBRADr. Rapalje

SHOW ALL WORK on this test or on separate! Circle final answers. NO CALCULATORS!

PART 1: (2 points each) Circle your answers! In 1 - 16, give the value.						
1.		2.	$3 + 7 \bullet 7$	3.	$5-5 \bullet 0$	
4.	$4 + 6 \bullet 8 + 2$	5.	(-18) + 12	6.	(-18) + (-12)	
7.	0 ÷ 4	8.	(− 18) ÷ 0	9.	(- 18) - (- 24)	
10.	(- 8) • 4	11.	(-6) • (-8)	12.	(- 32) ÷ 8	
13.	$(-2)^2$	14.	- 2 ²	15.	(-1) ³	
16.	(-1) ²	17.	$2^2 + 3^2$	18.	$2^2 - 3^2$	

In 19 – 23, simplify and combine like terms. Use the distributive property as necessary. 19. 2x + 2x 20. 4 + 2(3x - 6) 21. 5(x - 4) + 6(x + 5)

22. 5(x-4) - 6(x+5) 23. 4(3x+2) - 7(x-5)

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In 24 - 28, given x = -3 and y = 4. Find the values of the expressions.

24. 2x + 3y 25. 2xy 26. 4x + 2xy - 9y

27.
$$x^2 + y^2$$
 28. $x^2 - y^2$

In 29 – 32, give an expression in terms of the unknown number x.

- 29. Seven less than twice an unknown number.
- 30. Seven less an unknown number.
- 31. Suppose you have a total of \$1000 in two accounts. If you have x dollars in one of the accounts, how much is in the other account?
- 32. Suppose you have a total of x dollars in two accounts. If you have \$1000 in one of the accounts, how much is in the other one?

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PART 2: (4 points each, partial credit) In 33 – 42, solve the equations.						
33. $x + 5 = -25$	34. $-4x = -20$	35. $-x = 25$				
36. $6x + 8 = 38$	37. $4x + 12 = -8$	38. $-4x - 12 = 24$				

 $39. \quad 8x + 12 = 2x - 30 \qquad \qquad 40. \quad -4x - 12 = 2x + 30$

41. 8x - 3(4 + 2x) = -642. -2(2x - 4) - 3(3x + 2) = -24 Exam IC* Pre Algebra Solutions Dr. Rapalje 1. 12:3.2 2. 3+7.7 4. 4+6-8+2 5. (-18+12 6. (-18)+ (-12) 3. 5-5.0 4.2 3+49 5-0 4+48+2 (6) (-30) 5 8 (52) 52 +2 (54) 7. 0:4 8. (-18=0 9. (-18-(-24) 10. (-8.4 11. (-6)-(-8) 12. (-32)=8 0 -18+24 Under (32) (48) (-4) 6 13.(-2)2 14. -22 $\begin{array}{c} (-1) \begin{pmatrix} -1 \end{pmatrix} \\ (-1) \begin{pmatrix} -1$ (s. (-1))(-2) -2.2 (-4) 19. 2x+2x 20. 4+2(3x-6) 21. 5(x-4)+6(x+5) 22. 5(x-4)-6(x+5) (4X) (1×+10) (-x-50) 23. 4(3×+2)-7(×-5) 24. 2×+34 x=-3 4=4 26. $4 \times 4 2 \times 4 - 9 4 27. x^{2} + 4(-3) + 2(-3)(4) - 4(4) \in 3)^{2}$ 25. 2×4 12x+8-7x+35 2(-3)+3(4) (5x+43) 2(-3)(4) -6 +12 (-6)(4)(-12)+(-26) 9+1 6 (-24) E72) (25 28. x2 y2 29. 2×-7 33. ×+5=-25 30. 7-× -5-5 $(-3)^2 - (4)^2$ 35. $-\chi = 2$ 34. -4x = -2030. 7-X -4 -4 9-16 (X = -30) 31. 1000-X (x=5) ×=-2 \bigcirc 32. 2-1000

36. 6×+5 = 38 -8 -8 38. -4x-12=24 39. 8×+12 = 2×-37. 4×+12=-8 -12-+12 +12 -12 -12 8x = 2x -4. -4× = 36 6X = 30 6 6 =-20 GX = -42(x=-9 X=5 ~x=-5 X=-7

42.-2(2×-4)-3(3×+2)= 41. 8×-3(4+2×)=-6 40.-4X-12= 2×+30 +12 +12 -4x+8-9x-6=-2 8x-12-6x=-6 ر. در این میکند و هریکش بای ۲۰ ویله از . -4× -13×+2=-24 = 2x+42 2X-12 = -6 - 22 +12 +12 -6x = 42 -13× = -26 2× = 6 (X= 2 X=-7 (X=3)