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. $12 \div 3 \cdot 2$
2. $3+7 \cdot 7$
3. $5-5 \bullet 0$
4. $4+6 \cdot 8+2$
5. $(-18)+12$
6. $(-18)+(-12)$
7. $0 \div 4$
8. $(-18) \div 0$
9. $(-18)-(-24)$
10. $(-8) \bullet 4$
11. $(-6) \cdot(-8)$
12. $(-32) \div 8$
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. $2 x+2 x$
20. $4+2(3 x-6)$
21. $5(x-4)+6(x+5)$
22. $5(x-4)-6(x+5)$
23. $4(3 x+2)-7(x-5)$

In 24-28, given $x=-3$ and $y=4$. Find the values of the expressions.
24. $2 x+3 y$
25. $2 x y$
26. $4 x+2 x y-9 y$
27. $x^{2}+y^{2}$
28. $x^{2}-y^{2}$

In 29 - 32, give an expression in terms of the unknown number $\mathbf{x}$.
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 $\mathbf{x}$ dollars in one of the accounts, how much is in the other account?
32. Suppose you have a total of $\mathbf{x}$ dollars in two accounts. If you have $\$ 1000$ in one of the accounts, how much is in the other one?


PART 2: (4 points each, partial credit) In 33 -42, solve the equations.
33. $x+5=-25$
34. $-4 x=-20$
35. $-x=25$
36. $6 x+8=38$
37. $4 x+12=-8$
38. $-4 x-12=24$
39. $8 x+12=2 x-30$
41. $8 x-3(4+2 x)=-6$

1. $8 x-3(4+2 x)=$
. $8 x-3(4+2 x)=-6$
2. $-2(2 x-4)-3(3 x+2)=-24$

Exam 1C* Prealgebre Setatims Dr. Rapalje

1. $12 \div 3.2 \quad 2.3+7.7$
2. $5-5.0$
3. $4+68+2$
4.2

$$
\begin{align*}
& 3+49  \tag{8}\\
& 52
\end{align*}
$$

7. $0 \div 4 \quad$ 8. $(-18) \div 0$ undef
8. 5-5.0

$4+48+2$
$52+2$ (54)
$\begin{array}{ccccc}\text { 9. }(-18)-(-24) & 10 \cdot(-8) \cdot 4 & 11 \cdot(-6) \cdot(-8) & 12 \cdot(-32) \cdot 8 \\ -18+24 & -32) & 48 & -4)\end{array}$ (6)
$15 \cdot(-1)^{3} \quad 16 \cdot(-1)^{2}$
9. $2^{2}+3^{2}$
10. $2^{2}-3^{2}$
(-1) $(1)$
$4+9$
4-9
(-5)
11. $2 x+2 x \quad 20.4+2(3 x-6) \quad 21.5(x-4)+6(x+5)$
(4X)
$4+6 x-12$
$5 x-20+6 x+30$
$6 x-8$

$$
\text { 22. } \begin{gather*}
5(x-4)-6(x+5)  \tag{13}\\
5 x-20-6 x-30 \\
(-x-50
\end{gather*}
$$

23. $4(3 x+2)-7(x-5) \quad 24$.
$x=-3 \quad y=4$
$12 x+8-7 x+35$

$$
5 x+43)
$$

28. $x^{2}-y^{2}$

$$
(-3)^{2}-(4)^{2}
$$

29. $2 x-7$

9-16
30. $7-x$
(-7)
31. $1000-x$
32. $x-1000$
$2 x+3 y$
$2(-3)+3(4)$$\quad$ 25. $2 x y \quad 26.4 x+2 x y-9 y 27 . x^{2}+$ $2(-3)+3(4) \quad 2(-3)(4)$
33. $x+5=-25$

$$
-5-5
$$

34. $\frac{-4 x}{-4}=\frac{-20}{4}$
35. $\frac{-x}{-1}=2$

$$
x=-30
$$

$x=5$
38. $-4 x-12=24$
39. $8 x+12=2 x$

$$
42 \cdot-2(2 x-4)-3(3 x+2)=
$$

$$
-4 x+8-9 x-6=-2
$$

$$
-13 x+2=-24
$$

$$
-2
$$

$$
-13 x=-26
$$

$$
\begin{aligned}
& \text { 36. } 6 x+5=38 \\
& -8-8 \\
& \frac{6 x}{6}-\frac{30}{6} \\
& x=5 \\
& 4 x+12=-8 \\
& \begin{array}{l}
\frac{-12}{4 x}=-12 \\
\frac{x}{4}=-5
\end{array} \\
& \text { 40. }-4 x-12=2 x+30 \\
& \text { 41. } 8 x-3(4+2 x)=-6 \\
& 8 x-12-6 x=-6 \\
& -4 x=2 x+42 \\
& -2 x \quad-2 x \\
& \frac{-6 x}{-6}=\frac{42}{6} \\
& x=-7
\end{aligned}
$$

