

**N3CS20****Practice Set 11**

*Instructions: Answer each question on loose leaf, quad-ruled (graph paper), headed properly and written in lead-graphite. Remember to fold paper along the center, work exercises in order top to bottom, left column then right column. Staple multiple pages*

1. Solve the equations for 'y' in terms of 'x'
  - a)  $x + y = 455$  b)  $x - y = 455$  c)  $y - x = 455$
  - d)  $x + 2y = 454$  e)  $x - 3y = 453$  f)  $2y - 3x = 0$
2. Gv1 pg 175 #1
3. Gv1 pg 175 #2
4. Gv1 pg 175 #3
5. Gv1 pg 175 #4
6. Gv1 pg 175 #5
7. Gv1 pg 175 #6
8. Gv1 pg 175 #7
9. Gv1 pg 175 #8
10. Gv1 pg 175 #9
11. Gv1 pg 176 #10
12. Gv1 pg 164 #1
13. Gv1 pg 164 #2
14. Gv1 pg 164 #3
15. Determine the value of the unknown that makes the statement true; describe each step of your solution  
$$6(x - 3) + 10 = 2(4x - 5)$$
16. Gv1 pg 160 #24
17. Gv1 pg. 159 #17
18. Gv1 pg 159 #18
19. Gv1 pg 159 #19
20. Gv1 pg 159 #20
21. Gv1 pg 159 #21
22. Determine the quotient; express your solution in Scientific Notation.  
a)  $\frac{3.6 \cdot 10^3}{6 \cdot 10^{-2}}$  b)  $\frac{4 \cdot 10^4}{5 \cdot 10^7}$  c)  $\frac{1.5 \cdot 10^{-3}}{7.5 \cdot 10^{-6}}$
23. Determine the perimeter of the square with the given area. *No, you do not need a calculator for 'c'! Combine like terms!*  
a)  $A = 256\text{cm}^2$  b)  $A = 5.76\text{m}^2$  c)  $A = 5\text{in}^2$
24. Convert the repeating decimals into fractions:  
a)  $0.\overline{7}$  b)  $0.\overline{54}$  c)  $0.5\overline{7}$  d)  $0.18\overline{9}$
25. Simplify the expressions by multiplying /combining like terms:  
a)  $4 + 3(2 + x)$  b)  $6 - 4(3 - x) - x$   
c)  $5x - 2(3 - 4x) + 7$   
d)  $x^2y^4z^2 - 5x^2zy^4 + 2zx^2y^4 - 3y^4z^2x^2$
26. The perimeter of a rectangle is 32m. The length of the rectangle is 10m; determine the area of the rectangle.
27. A sofa costs \$320 more to manufacture than a matching lounge chair. 3 lounge chairs cost as much to manufacture as 2 sofas. How much does it cost to manufacture one lounge chair? (*Hint:  $3L = 2S; S = L + 160$ .*)
28. Gv1 pg 185 #1
29. Gv1 pg 185 #2
30. Gv1 pg 185 #3
31. Gv1 pg 185 #4
32. Gv1 pg 185 #5
33. Gv1 pg 185 #6
34. Gv1 pg 185 #7
35. Gv1 pg 185 #8
36. Gv1 pg 185 #10
37. Gv1 pg 177 #16
38. Gv1 pg 177 #17
39. Gv1 pg 177 #18
40. Gv1 pg 178 #23
41. Gv1 pg 178 #25