

N3CS20

Practice Set 20

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. Fold multiple pages

1. Gv1 pg. 247 #1
2. Gv1 pg. 247 #3
3. Gv1 pg. 247 #5
4. Gv1 pg. 247 #7
5. Gv1 pg. 247 #9
6. Gv1 pg. 247 #11
7. Gv1 pg. 240 #12
8. Gv1 pg. 241 #18
9. Gv1 pg. 241 # 19
10. Gv1 pg. 242 #22
11. Gv1 pg. 13 #28
12. Gv1 pg. 19 #12
13. Gv1 pg. 27 #10
14. Gv1 pg. 28 #20
15. Gv1 pg. 35 #16
16. Gv1 pg. 47 #16
17. Gv1 pg. 48 #20
18. Gv1 pg. 63 #8
19. Gv1 pg. 77 #16
20. Gv1 pg. 85 #10
21. Gv1 pg. 157 #6
22. Gv1 pg. 177 #18
23. Gv1 pg. 195 #4
24. Gv1 pg. 203 #6
25. Gv1 pg. 225 #8
26. Gv1 pg. 227 #22
- 27.

Sort the systems of equations into the appropriate bins that describe their solutions. 8.EE.8, 8.EE.8b

$y = 2(x + 3)$ $y = 2x + 6$	$y = 4x + 4$ $y = 4x + 1$	$y = -x$ $y = x - 1$
No Solution	One Solution	Infinitely Many Solutions

28.

The cost y in dollars to park in a garage is found by the equation $y = 2.50 + 0.75x$, where x is the number of hours parked. Select whether each statement is true or false. 8.F.3, 8.F.4

True False

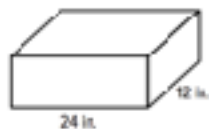
- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | The graph of $y = 2.50 + 0.75x$ passes through $(0, 0)$. |
| <input type="checkbox"/> | <input type="checkbox"/> | The graph of $y = 2.50 + 0.75x$ is a straight line. |
| <input type="checkbox"/> | <input type="checkbox"/> | The y -intercept represents the flat fee for parking, which is \$2.50. |
| <input type="checkbox"/> | <input type="checkbox"/> | The slope represents the total cost of one hour of parking, which is \$0.75. |

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An online shopping company uses boxes like the one shown to ship purchases to customers. 8.EE.7, 8.EE.7b



Part A: The shipping box needs 1,224 square inches of cardboard to make its six sides, without overlap. What is the height of the box?

Use the formula for surface area of a prism: $S.A. = 2wh + 2lw + 2lh$ to write an equation. Then find the box height.

Equation:

Height of box:

Part B: Would packing material with volume 2500 cubic inches fit into this shipping box? Explain.

30.

Golden Gate Park in San Francisco, California, is rectangular in shape and measures approximately 1.6×10^3 feet by 2.7×10^3 feet. One acre is equal to $4,356 \times 10^4$ feet. About how many acres does Golden Gate Park cover? Round to the nearest hundredth. Explain your answer. 8.EE.4