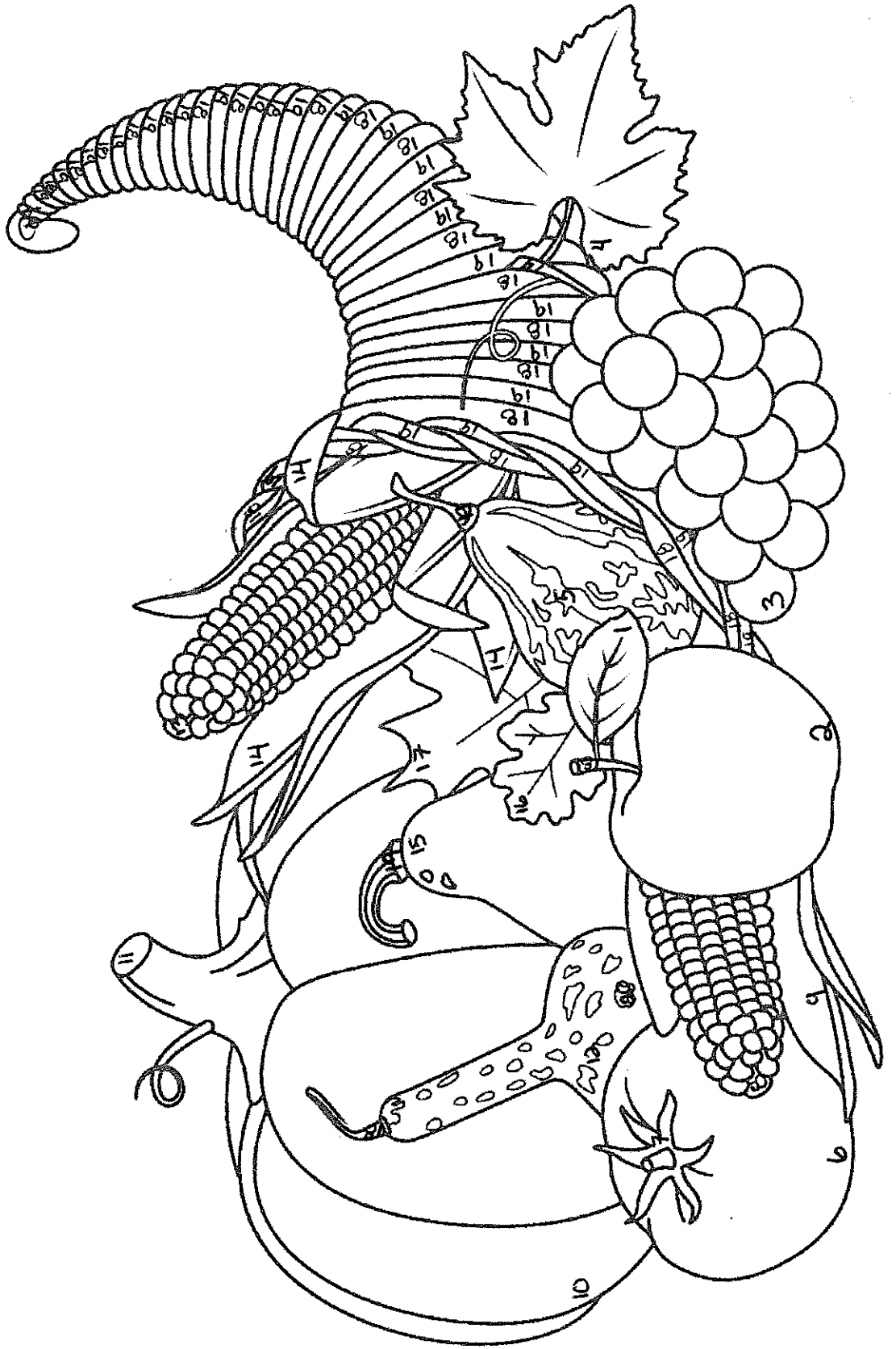


HAPPY HOLIDAYS!



Chapter 3 Color by Number - Cornucopia

Name: _____ Date: _____ Period: _____

Solve each equation/inequality according to what we learned in class. If it's a graph match it with either the equation/inequality or the solution to a compound inequality.

1. $|y - 8| + 7 > 35$

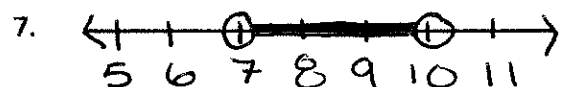
2. $\frac{-2|y+6|-2}{-7} = 4$

3. Write an absolute value inequality whose solutions include -2 to 6.

4. $-4|x + 1| - 7 = 21$

5. $-5|y + 6| \geq -35$

6. Puddings produced at a factory must be 25g in weight with a tolerance of 5g. Puddings that are not within the tolerated weights must be thrown away. Write an inequality that can be used to assess which puddings are tolerable?



8. $|x - 9| = 13$

9. $-7 \leq \frac{-(3x-8+2x)}{-6} < 4$

10. $5 - 6|x + 2| \geq -19$

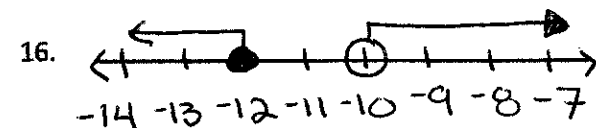
11. $-10 \leq 4x - 2 < 6$

12. $|y + 2| - 8 = -4$

13. $|y| = 8$

14. Write an absolute value equation whose solutions are -4 and 2.

15. $\frac{5x+3}{4} - 4 > 3$ or $\frac{5-2x}{5} > 3$



17. Water is not a liquid if its temperature is above 100 degrees Celsius or below 0 degrees Celsius. Write a compound inequality for when water is not a liquid.

18. $|x + 11| = 4$

19. $|x + 6| < 8$

20. $-6|x - 3| - 7 = -31$

Match your work to one of these solutions. It will tell you what color to use for that number on your picture.

$-14 < x < 2$ Light Brown

No Solution Color any way you want

$-6 \leq x \leq 2$ Orange

$x < 0$ or $x > 100$ Light Yellow

$y = 8$ and -8 Dark Yellow

$x = -1$ and 7 Black

$x > 5$ or $x < -5$ Purple

$-13 \leq y \leq 1$ Dark Orange

$|x - 20| \leq 5$ Red

$-2 \leq x < 2$ Grey

$y = -6$ and 2 Light Green

$x = -15$ and -7 Dark Brown

$y < -20$ or $y > 36$ Dark Green

$|x - 2| \leq 4$ Dark Red

$x = -4$ and 22 Multi-color (your choice)

$-6\frac{4}{5} \leq x < 6\frac{2}{5}$ Yellow/Tan/Brown (mix the colors)

$y \leq -12$ or $y > -10$ You choose the color(s)

$|x + 1| = 3$ Green

$y = -19$ and 7 Light Green

$7 < x < 10$ Green

Color the words "Happy Holidays" any way you want.