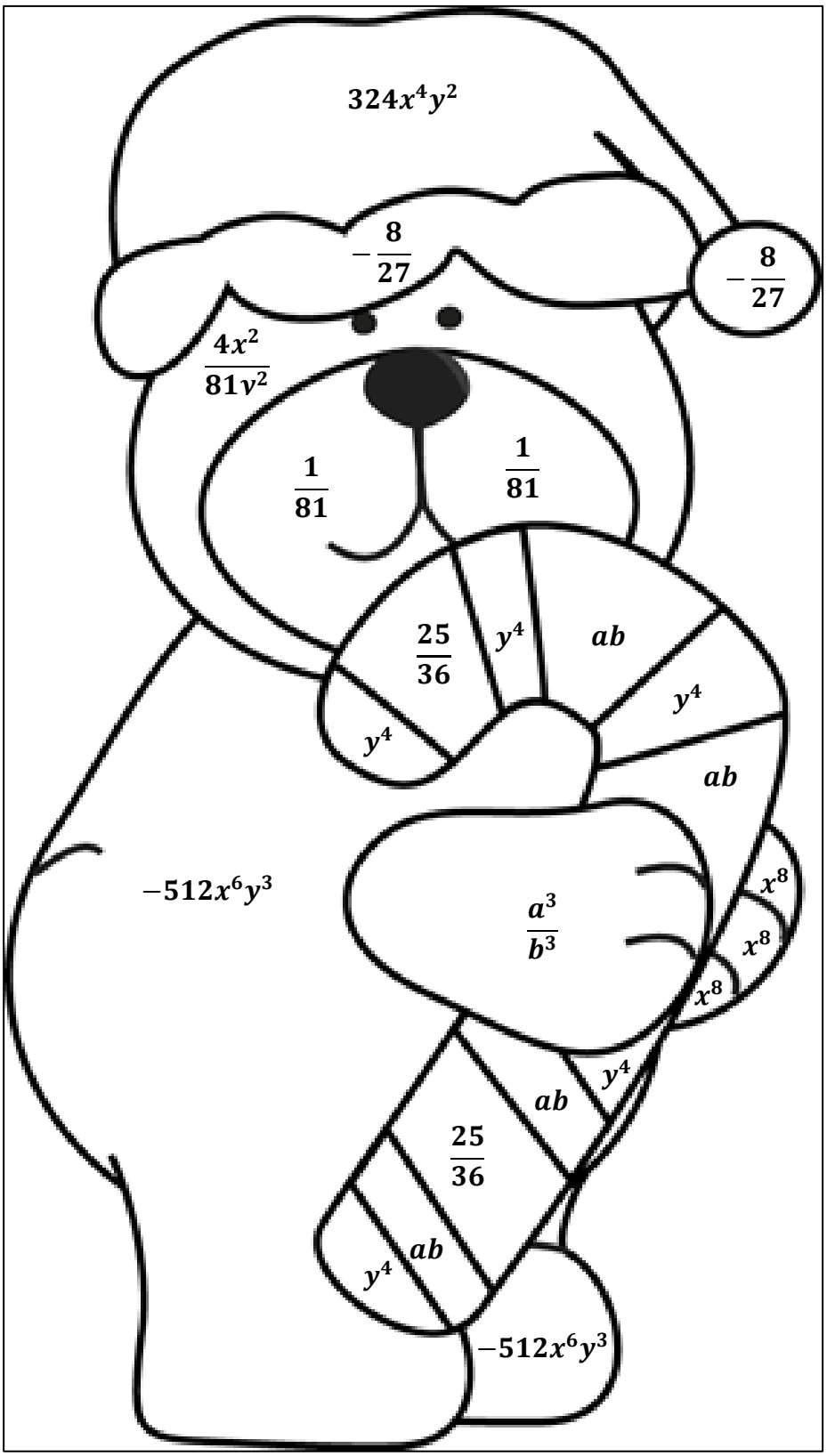
Name: _____ Period: _____ Date: _____

5-6 POWERS OF PRODUCTS AND QUOTIENTS COLOR BY CODES



Answer the questions - find your answer on the Christmas Bear - color according to your answers.

1. Simplifying $\left(\frac{5}{6}\right)^2$ gives _____. **(PINK)**

2. Simplifying $(-2x^2 3^2 y)^2$ gives _____. **(RED)**

3. Simplifying $\left(-\frac{2}{3}\right)^3$ gives _____. **(LIGHT GREEN)**

4. Simplifying $\left(\frac{a^6 b^9 c^3}{a^3 b^6 c^3}\right)^{\frac{1}{3}}$ gives _____. **(LIGHT BLUE)**

5. Simplifying $(-y^3 y^5 y^{-6})^2$ gives _____. **(GREEN)**

6. Simplifying $\left(\frac{2x}{9y}\right)^2$ gives _____. **(LIGHT BROWN)**

7. Simplifying $\left(\frac{a^2 b}{ab^2}\right)^3$ gives _____. **(ORANGE)**

8. Simplifying $(-x^2 2^3 y)^3$ gives _____. **(LIGHT BROWN)**

9. Simplifying $(-x^2 x^5 x^{-3})^2$ gives _____. **(ORANGE)**

10. Simplifying $\left(\frac{1}{3}\right)^4$ gives _____. **(LIGHT YELLOW)**