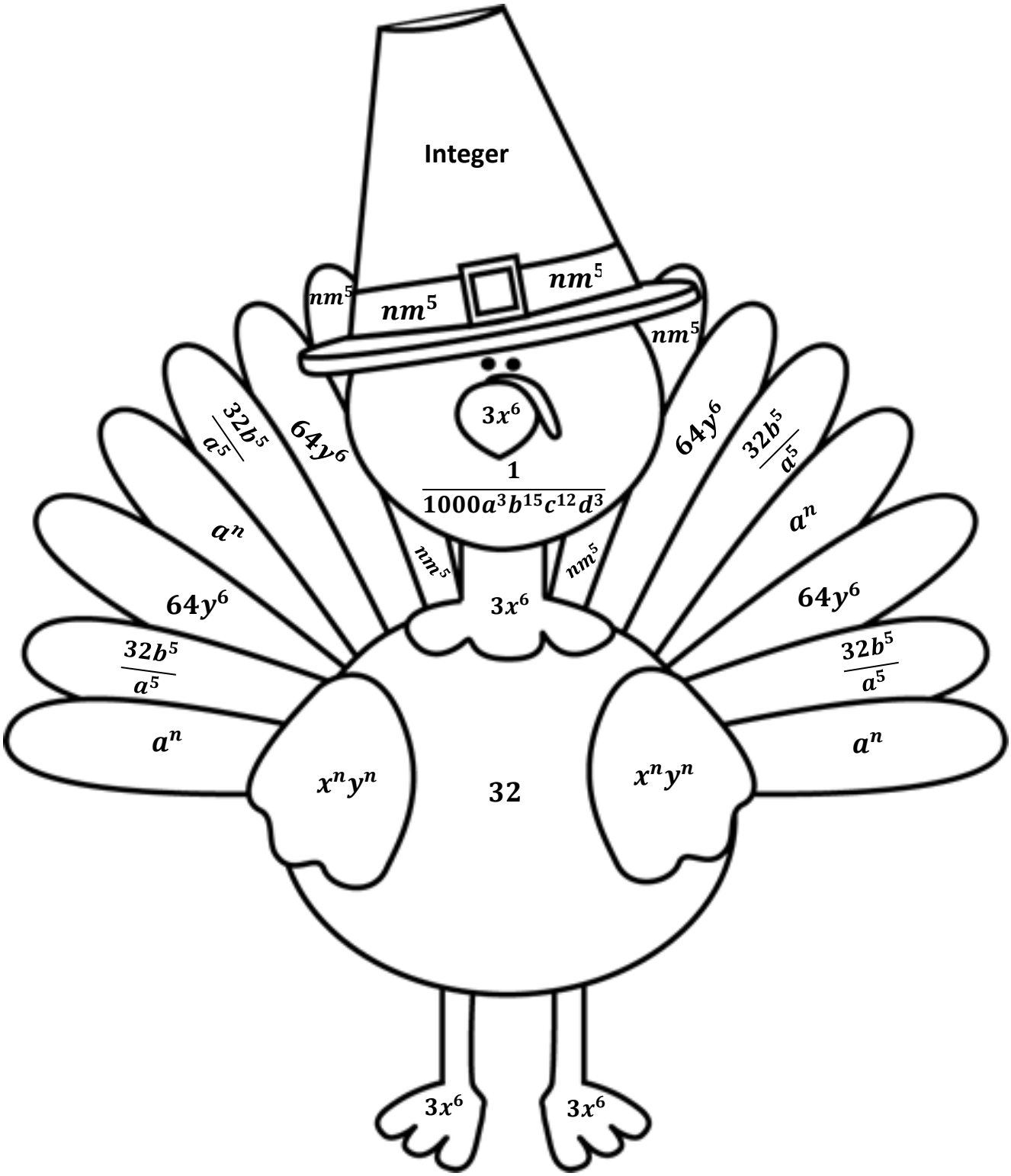
Name: _____ Period: _____ Date: _____

Thanksgiving Color Match Activity EXPRESSIONS WITH INTEGER EXPONENTS



Directions: Answer the questions. Find your answer on the Thanks-Giving Turkey. Then color according to your answers.

1. An exponent that is either a positive or a negative number or zero is a/an _____ exponent. **(ORANGE)**

2. By the definition of exponentiation, $a \times a \times a \times \ldots \times a =$ _____. **(LIGHT GREEN)**

3. By the definition of exponentiation, $2^5 =$ _____. **(PINK)**

4. By the laws of exponents, $(xy)^n =$ _____. **(YELLOW)**

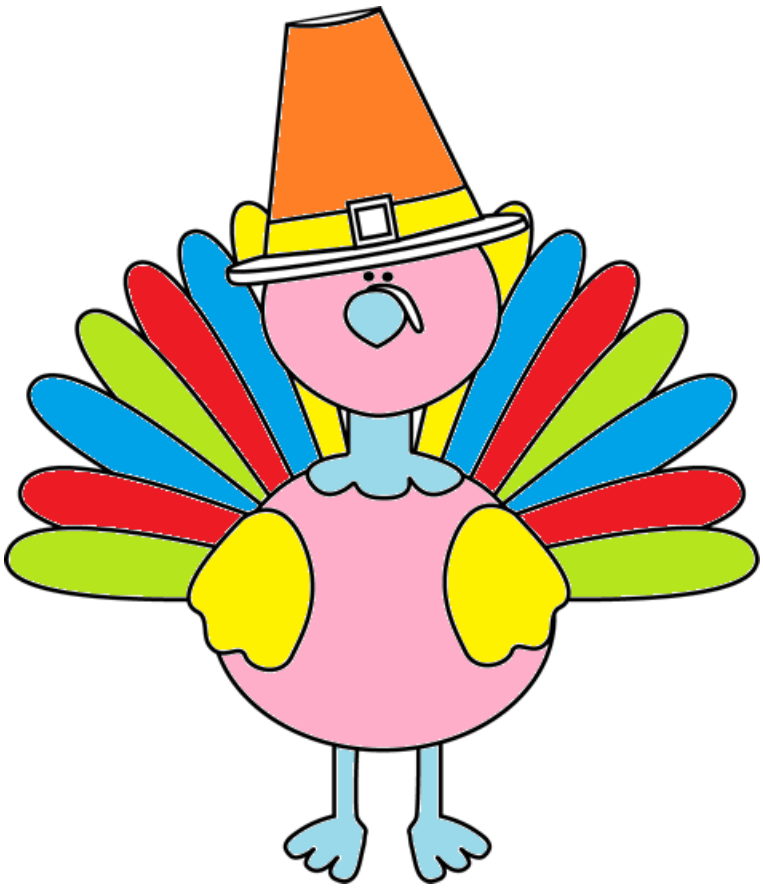
5. Simplifying the expression $(4x^{-3}y^2)^3$ gives _____. **(BLUE)**

6. Simplifying the expression $(10ab^5c^4d)^{-3}$ gives _____. **(PINK)**

7. Simplifying the expression $(2a^3b^{-2}a^{-4}b^3)^5$ gives _____. **(RED)**

8. Simplifying the expression $(3xx^5x^{-9}x)^{-3}$ gives _____. **(LIGHT BLUE)**

8. Simplifying the expression $\frac{n^{-2}m}{m^{-4}n^{-3}}$ gives _____. **(YELLOW)**



Answers:

1. Integer
2. a^n
3. 32
4. $40°$
5. $\frac{64y^6}{x^9}$
6. $\frac{1}{1000a^3b^{15}c^{12}d^3}$
7. $\frac{32b^5}{a^5}$
8. $3x^6$
9. nm^5