

Name _____

Witty's Colorful Candy Quest

Choose the operation (+, -, x, ÷) that when applied to the pair of numbers on the house or trick-or-treat bag equals either 8, 24, 12, 21, 18 or 9.
For example, The first house has 3 and 3. $3 \div 3 = 9$ is green. Then color the house or trick-or-treat bag the corresponding color.

Red = 8

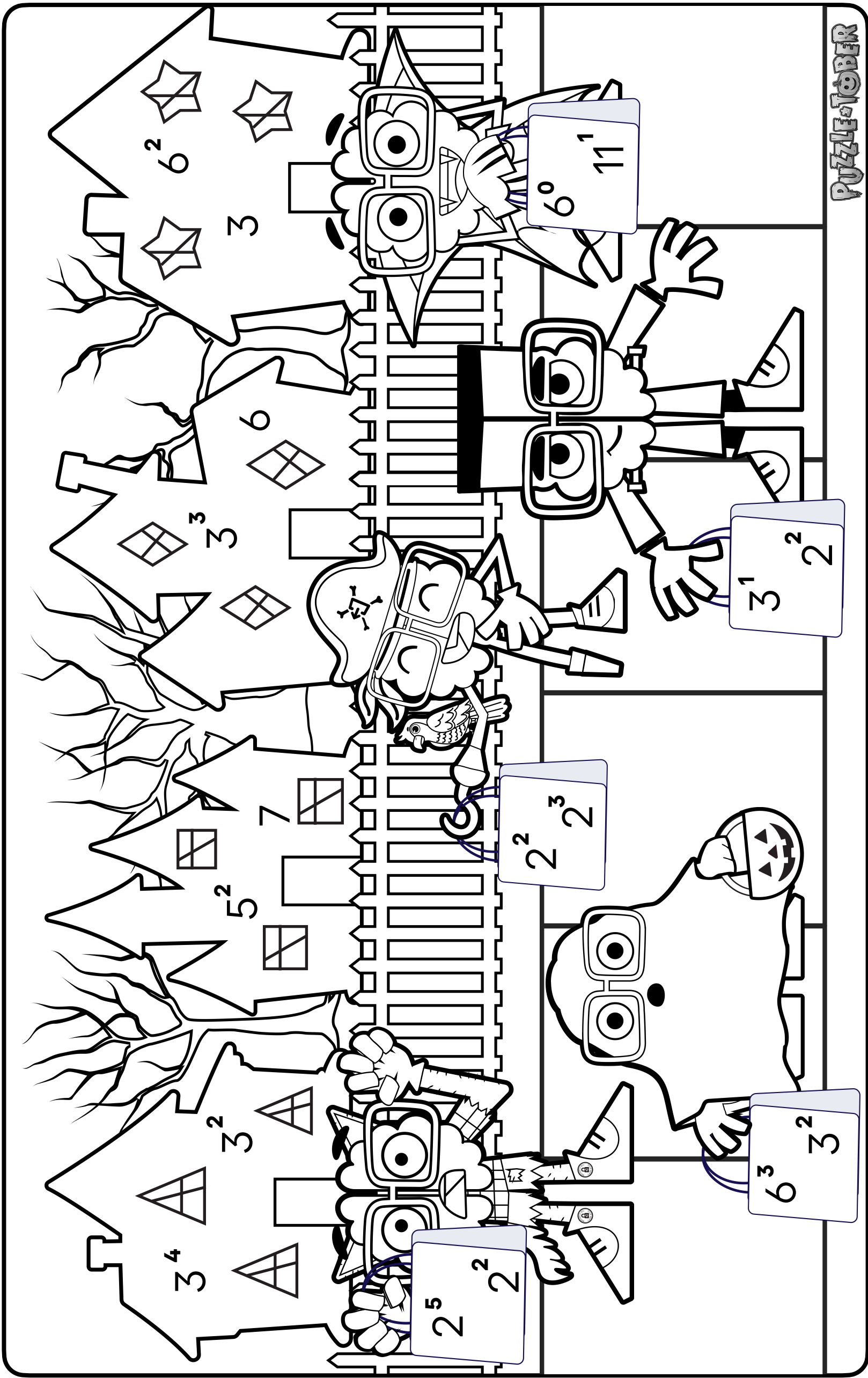
Yellow = 24

Blue = 12

Purple = 21

Orange = 18

Green = 9





Witty's Colorful Candy Quest - Upper Grades

Digital Game

Coloring Page and Answer Key

STORY

Witty and his pals are so excited to trick-or-treat! They can't wait to collect bags of spooktacularly colorful candy!

COMBINATIONS & PUZZLE EXPLANATIONS

This puzzle has two parts. The first part is the attached **Witty's Colorful Candy Quest** coloring page. Download this answer key and print page two for your students to complete before attempting the assigned digital game.

COLORING PAGE:

Players need to follow the directions to color the houses and trick-or-treat bags.

1st House - $3^4 = 81$, $3^2 = 9$, $81 \div 9 = 9$ green

2nd House - $5^2 = 25$, $25 - 7 = 18$ orange

3rd House - $3^3 = 27$, $27 - 6 = 21$ purple

4th House - $6^2 = 36$, $36 \div 3 = 12$ blue

Werewolf $2^5 = 32$, $2^2 = 4$, $32 \div 4 = 8$ red

Ghost $6^3 = 216$, $3^2 = 9$, $216 \div 9 = 24$ yellow

Pirate $2^2 = 4$, $2^3 = 8$, $4 + 8 = 12$ blue

Frank $3^1 = 3$, $2^2 = 4$, $3 \times 4 = 12$ blue

Vampire $6^0 = 1$, $11^1 = 11$, $1 + 11 = 12$ blue

DIGITAL SHAPE LOCK: SQUARE - TRIANGLE - STAR - RHOMBUS - RHOMBUS

Text Clue: Every year, Witty and his friends like to mix things up with a new route, new costumes, and, of course, new candy!

Players will use the colors of the houses and trick-or-treat bags to solve the digital puzzle.

They will mix the color of the trick-or-treat bag with the color of the candy the character hopes to receive. They will find the house with that color and use the shape of the windows for the combination. They will solve for each character from left to right.

Werewolf red bag + yellow candy = orange house, square windows

Ghost yellow bag + blue candy = green house, triangle windows

Pirate blue bag + blue candy = blue house, star windows

Frank blue bag + red candy = purple house, rhombus windows

Vampire blue bag + red candy = purple house, rhombus windows