

CHRISTMAS

LOGIC PROBLEMS

Find the value for each symbol.

$$\text{Sweater} \times \text{Sweater} = 64$$

$$\text{Stocking} \times \text{Candy cane} =$$

$$\text{Candy cane} \times \text{Sweater} =$$

8

Find the value for each symbol.

$$\text{Window} \times \text{Window} = \text{Stocking}$$

$$5 \div \text{Stocking} = 3$$

$$\text{Sweater} \div \text{Window} =$$

Find the value for each symbol.

$$\text{Santa} \times 3 = \text{Ornament}$$

$$\text{Stocking} \div \text{Santa} = 19$$

$$\text{Ornament} \times \text{Ornament} = 36$$

GRADES
4-6

SHELLEY GRAY

Ready to
challenge
your students' brains this
December?

These Logic Puzzles will require
your students to think differently
than they are used to, providing a
whole new element of challenge!



Find the value for each symbol.

$$\text{Sled} \times \text{Sled} = 4$$
$$\text{Stocking} \times \text{Sled} = 100$$
$$\text{Candy cane} \times \text{Stocking} = 50$$

1

Find the value for each symbol.

$$\text{Santa} \times 3 = \text{Ornament}$$
$$\text{Stocking} \div \text{Santa} = 19$$
$$\text{Ornament} \times \text{Ornament} =$$

3

Requires
critical
thinking!















This set includes

20 logic puzzles

that focus on multiplication and division (mostly within 100 with some bigger problems included).


A recording sheet is included to make student organization simple.

RECORDING SHEET (Multiplication and Division Logic Problems)

1  =  =  =	2  =  =  =	3  =  =  =	4  =  =  =
5  =  =  =	6  =  =  =	7  =  =  =	8  =  =  =
9  =  =  =	10  =  =  =	11  =  =  =	12  =
13  =  =  =	14  =  =  =	15  =  =  =	
17  =  =  =	18  =  =  =	19  =  =  =	

Find the value for each symbol.

 \times  = 64


 \times  = 66

 \times  = 88

Find the value for each symbol.

 \times  = 

$75 \div$  = 3

 \div  = 3

Ideas for Use



Morning Tubs



Math Centers



Early Finisher Activity









Around the Room Gallery Walk

Tip:

Let your students
work in partners and
listen to the amazing
math conversation
that occurs!

Find the value for each symbol.

	\times	3	=	
	\div		=	19
	\times		=	36

3

© Shelley Gray

Along with the printable version, this resource also includes a Google Slides version – perfect for projecting in your classroom.

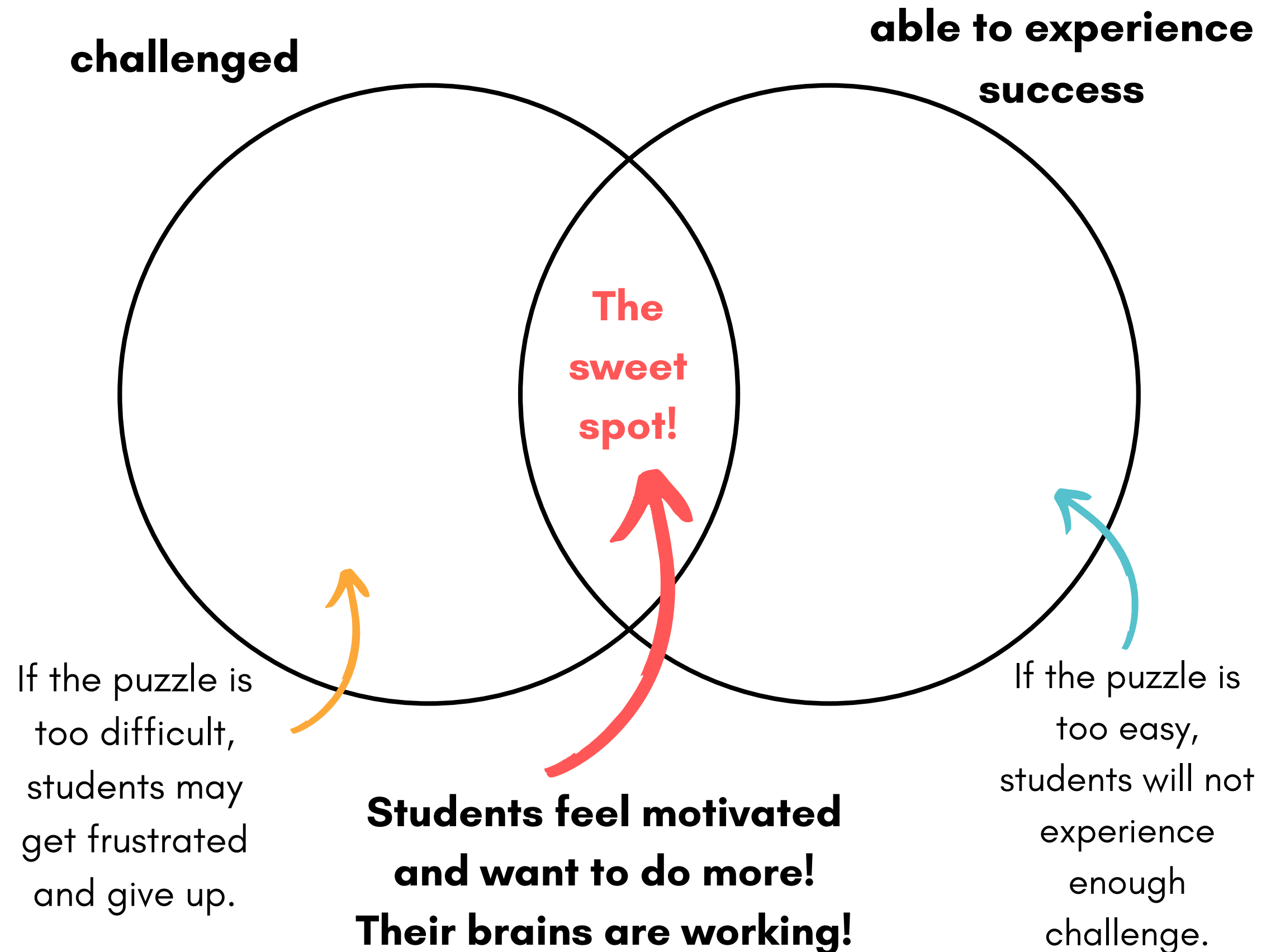
Use it as a math warm-up, daily challenge, or thinking task to promote deep and critical thinking.

"Just enough" struggle...

There is a **sweet spot** when it comes to student engagement.

You want your students challenged "just enough" so their brains experience a bit of struggle. But if the challenge is too much, you'll have students experiencing frustration instead (not the goal!)

In the sweet spot, students are **motivated and having fun!**



In order to have all your students working in their very own sweet spot, it may be necessary to provide **differentiated puzzles.**

This bundle includes ALL my Christmas Logic Problems - 160 in all, at 8 different levels!

Let students choose the set they work on, telling them, "*Choose the set that gives your brain the perfect amount of struggle!*"



Differentiate to all your students with the Christmas Logic Puzzle Bundle [HERE](#).