

Bursting Bubbles

$12 \div 3 =$



$24 \div 3 =$

$27 \div 3 =$



$15 \div 3 =$

$9 \div 3 =$

$21 \div 3 =$

$27 \div 3 =$

$15 \div 3 =$



$3 \div 3 =$

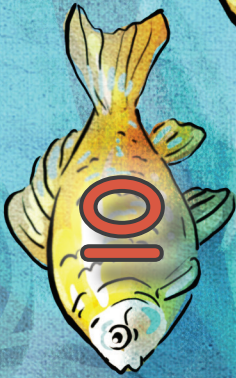
$21 \div 3 =$

$30 \div 3 =$

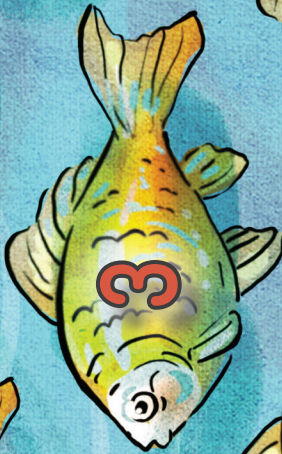
6



10



3



7



4



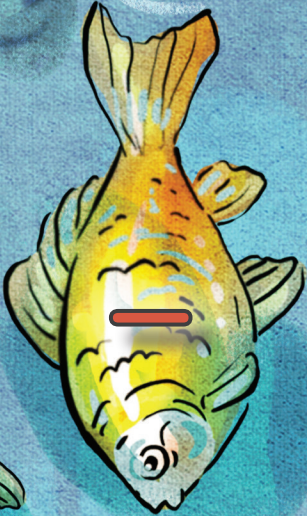
5



8



1



9



Gone Fishing

$9 \div 3 =$

$18 \div 3 =$



$6 \div 3 =$

$24 \div 3 =$

$3 \div 3 =$

$12 \div 3 =$

$6 \div 3 =$



$18 \div 3 =$

$30 \div 3 =$

Risky River Run

even

even

even

even

even

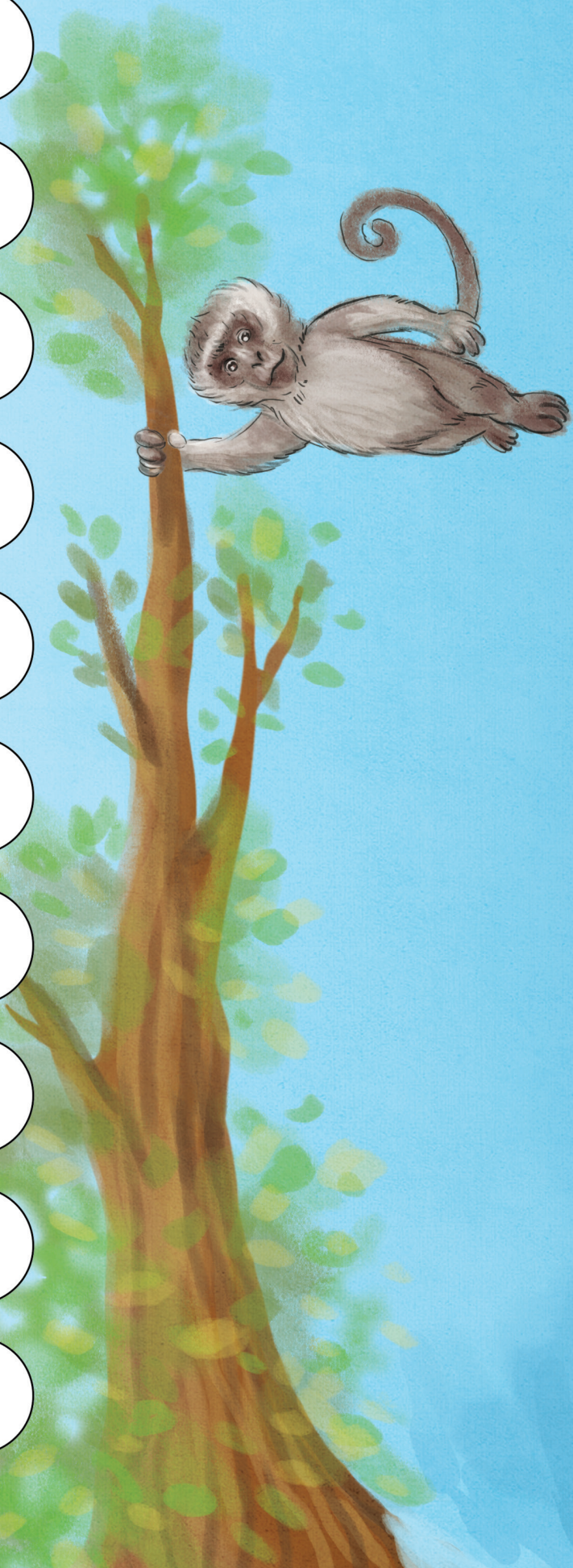
even

even

even

even

even



odd

odd

odd

odd

odd

odd

odd

odd

odd


odd



Secret Keys

Which key will unlock the padlock? Find the key that will open the lock by doing the following: First, solve the addition and subtraction problems below. Second, read each clue to narrow down which key is the right one. Third, write the number of the secret key on the blank line.

#1 
$$\begin{array}{r} 871 \\ - 239 \\ \hline \end{array}$$

#2 
$$\begin{array}{r} 163 \\ + 516 \\ \hline \end{array}$$

#3 
$$\begin{array}{r} 592 \\ - 156 \\ \hline \end{array}$$

#8 
$$\begin{array}{r} 652 \\ + 329 \\ \hline \end{array}$$



#4 
$$\begin{array}{r} 464 \\ + 329 \\ \hline \end{array}$$

#7 
$$\begin{array}{r} 971 \\ - 462 \\ \hline \end{array}$$

#6 
$$\begin{array}{r} 561 \\ + 432 \\ \hline \end{array}$$

#5 
$$\begin{array}{r} 893 \\ - 625 \\ \hline \end{array}$$

Which Key Is It?

- The key number is an odd number.
- The digit in the hundreds place is greater than the digit in the ones place.
- All three digits in the number are odd.
- The secret number is closer to the number 850 than the other numbers are.

The secret key is # _____ .

Closest to 100

Catherine and her friends are playing a game. They want to see whose sum is closest to 100. For each person, roll a 10-sided die four times and write the numbers rolled in that person's four gray boxes from left to right and top to bottom. (Re-roll if you get a 10.) Add each person's two two-digit numbers together using any mental math strategy you like. The person whose sum is closest to 100 (whether over or under) is the winner!



Catherine

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$


Raphael

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$


Anthony

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$


Sasha

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$


Chen

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$


Kaylee

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$


David

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$


Amara

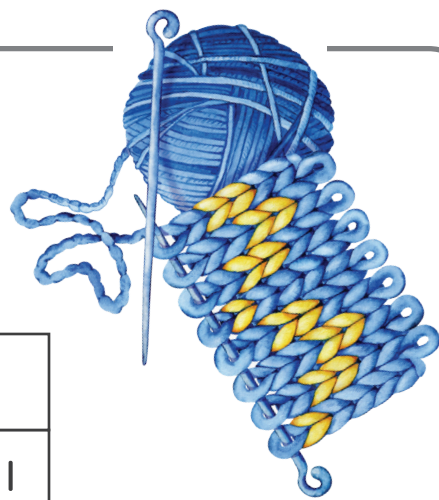
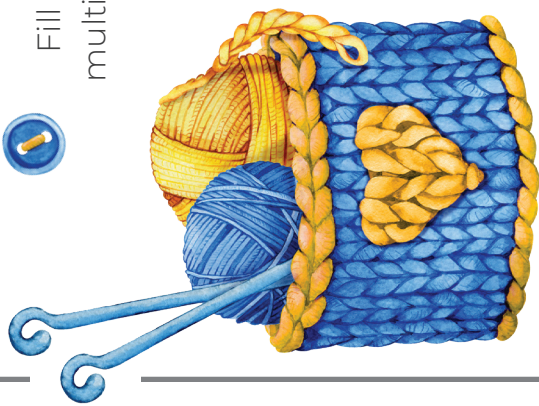
$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$


Camila

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array}$$

Crisscross Multiplication Practice

Fill in the missing numbers in the multiplication crisscross puzzle. Start with the multiplication problems that have both factors listed. After those are solved, you will be able to solve the remaining problems.



2	x	6	=
---	---	---	---

x		=
---	--	---

6	x	8	=
---	---	---	---

x		=
---	--	---

5	x	2	=
3	x	7	=
		x	4
			=

4	x	9	=
---	---	---	---

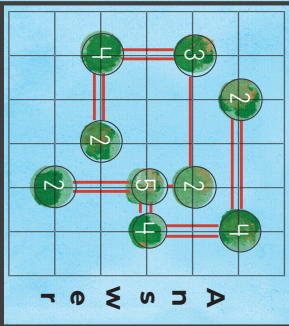
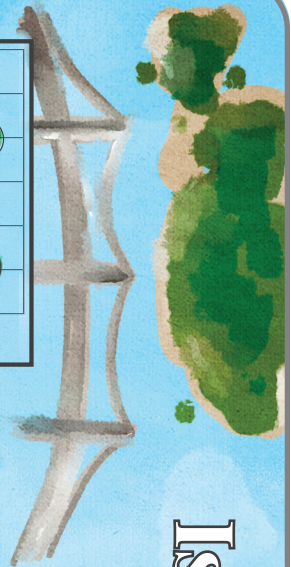
6	x		=
---	---	--	---

6	x	3	=
---	---	---	---

6	x	7	=
---	---	---	---



Islands and Bridges #1



Connect the islands by drawing bridges between them. Bridges must be either horizontal or vertical (not diagonal) and cannot cross. Up to two bridges can connect any two islands, and all the islands must be connected. The number on each island indicates the number of bridges it needs. See the sample to the left to see how to solve this type of puzzle.

Hints: The “1” island will have only one bridge. Is there more than one option for where that bridge goes?
 Each “2” island can have either one bridge to each of two other islands or two bridges to one other island.
 Each “3” island can have either one bridge to each of three other islands or two bridges to one island and one to another.



Math Mystery #3

Solve for each shape below and find the final product.

$$\square \times \square = 49$$

$$\square = \square$$

$$\square \times \heartsuit = 21$$

$$\heartsuit = \square$$

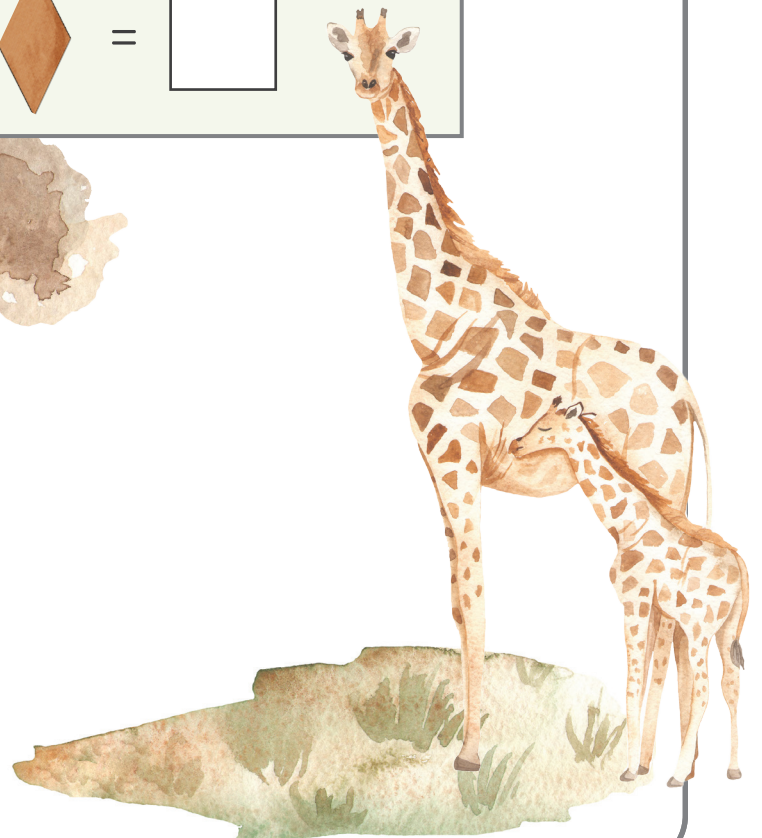
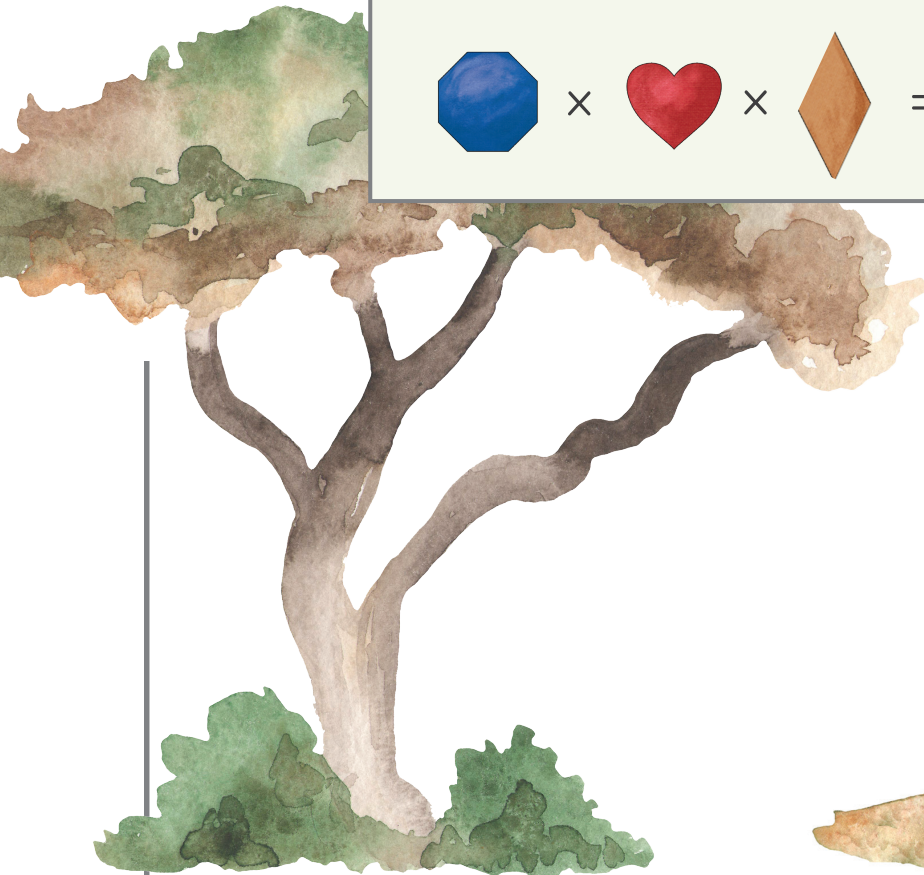
$$\heartsuit \times \blacklozenge = 12$$

$$\blacklozenge = \square$$

$$\blacklozenge \times \heptagon \times \heptagon = 16$$

$$\heptagon = \square$$

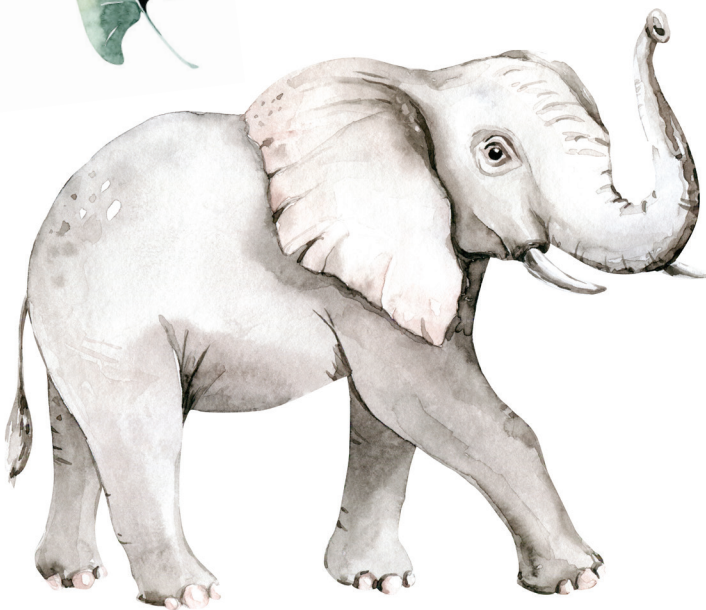
$$\heptagon \times \heartsuit \times \blacklozenge = \square$$



Shikaku Puzzle #4

Draw rectangles (including squares) to divide the grid below into sections such that each section includes only one number and contains that number of boxes. The rectangles cannot overlap, and every box must be part of a rectangle.

			8						
4		6							
								16	
2									
			8						
									12
									8



Coin Count #3

Color in the correct number of quarters, dimes, nickels, and/or pennies to show one possible answer for each of the brain teasers below. *Hint: Mark the coins that you think are needed with a dot until you are certain those are the coins needed. Then finish coloring them in.*

You have 45¢ made with 4 coins. Which coins do you have?



You have 61¢ using the fewest coins possible. Which coins do you have?



You have 98¢ using the fewest coins possible. Which coins do you have?

