

YEAR

5

AfterMaths

Workbook

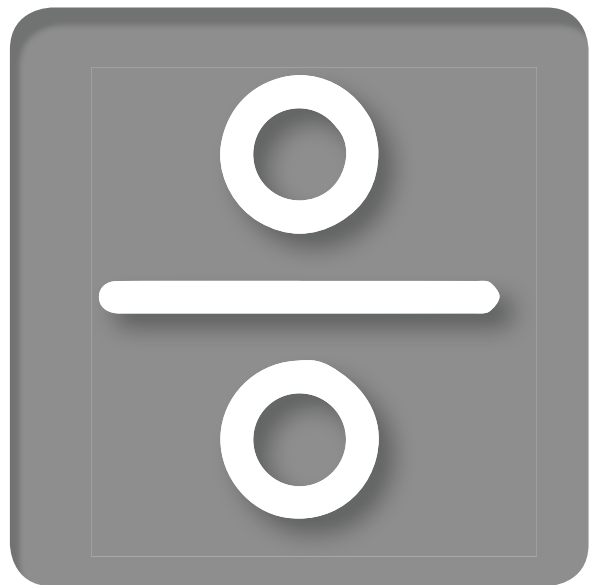
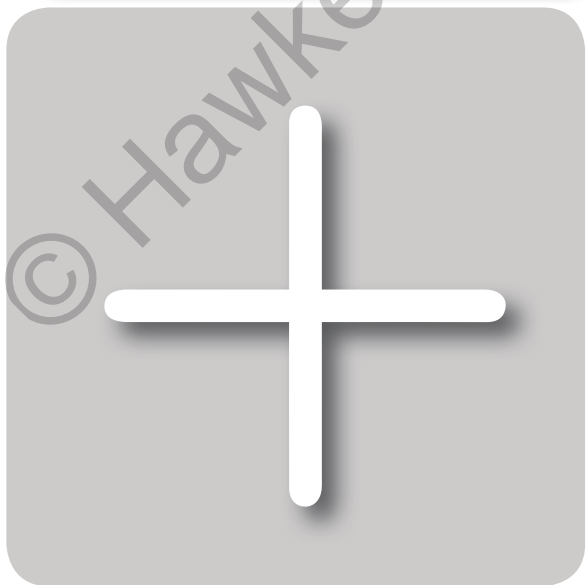
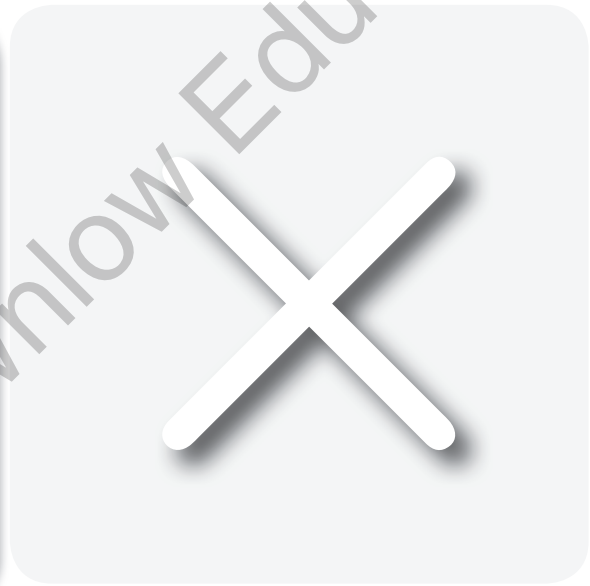
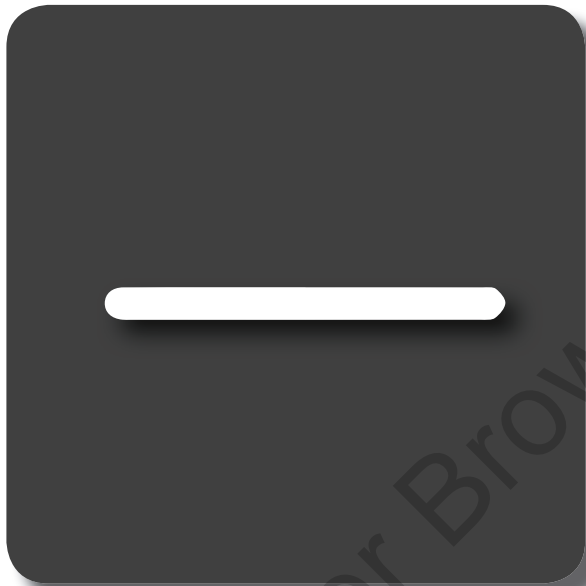


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Dear Student,

Welcome to *AfterMaths*[™], a program that allows you to explore mathematics. Inside this book are 36 activities. In these activities, you will play maths games, conduct experiments, solve problems and perform "maths magic".

AfterMaths is designed to allow you to work alone, with a partner or in a small group. You will try a variety of activities. By doing these activities, you will develop your maths skills and look at maths in new ways. You also will find that maths is part of your everyday life.

Some activities use skills that you already know. Other activities add to known skills. Still other activities provide challenges. The goal is always to have fun and to learn at the same time.

A famous man named Galileo once said that mathematics is the alphabet in which the universe was created. So, enjoy the activities and begin learning that "alphabet".

You may want to have materials such as the following on hand: pencils and erasers, scrap paper, a calculator and a ruler.

This *AfterMaths* book was prepared for students by Christopher Forest.

Designed by Jamie Ruh.

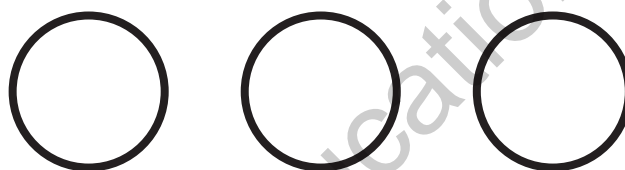
PICK A NUMBER

Nine balls were put into a box. The balls were numbered from 1–9. Students picked the balls out and formed three different three-digit numbers with the balls. Read the clues. Then write each digit on the correct ball.

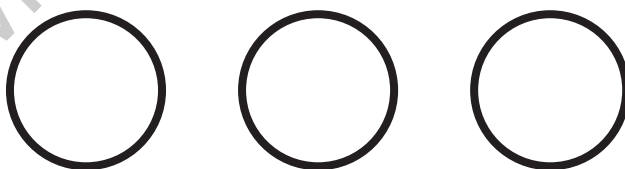
CLUES

NUMBERS

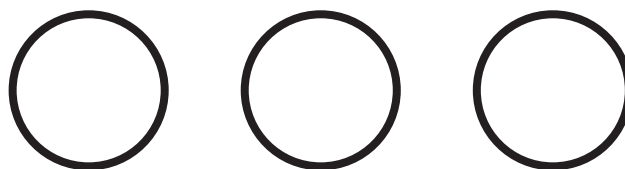
1. The hundreds digit in this number is the largest one-digit number that is divisible by 9.
2. The tens digit is equal to the number 1 multiplied by itself.
3. The ones digit is equal to the sum of $7 + 3$ divided by 2.



4. The tens digit in this number is equal to twice the smallest even number.
5. The hundreds digit is the number, when added to itself, equals 6.
6. The ones digit is equal to the sum of $6 + 9 + 9$ divided by 3.



7. The tens digit in this number is a number that, when added to itself or multiplied by itself, is equal to the same number.
8. The ones digit is equal to $24 - 12$ divided by 2.
9. The hundreds digit is the largest one-digit prime number.



NAME THAT DIGIT!

Missing Digit

Play this game with a partner. Try it three times to see if you can always figure out the missing digit. Fill in the chart as you go.

STEPS	First Try	Second Try	Third Try
1. Have your partner write a four-digit number. Make sure you don't look at it.			
2. Ask your partner to add the four digits together and write down the sum.			
3. Have your partner subtract the sum in step 2 from the number in step 1.			
4. Ask your partner to circle one digit (not a 0) in the number. This will be the "missing digit". Say that you will soon be able to identify this missing digit.			
5. Have your partner slowly read the digits that have not been circled.			
6. Add the digits that your partner reads. If they equal a two-digit number, add those two digits together to get a one-digit number.			
7. If the digits equal a number from 1 to 8, subtract the number from 9. This will be the missing digit. If the digits add up to 9, then the missing digit is 9.			



Figure Me Out

I am a one-digit number that is greater than most one-digit numbers. I am related to a musical scale. I am also the past tense of what you probably did to a good meal. What number am I?
