

*Life of Fred  
Honey*

Stanley F. Schmidt, Ph.D.



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# *A Note Before We Begin Life of Fred: Honey*

Life gets so busy sometimes.

Wheaties

honey



Worcestershire

daughter

This was our breakfast table 41 years ago.

- ★ You know that life is getting to complicated and distracting when you put the Worcestershire on your Wheaties.
- ★ You know that you may not be gifted with foresight if you give your daughter an open jar of honey to play with.

What's the most important item on the table?



Taking the long view in life is central to your ultimate happiness.  
Compare:

- ✓ My daughter called me yesterday to share some happy stories.
- ✓ The Worcestershire sauce bottle has never once bothered to call or even send me an email.
- ✓ The Wheaties box has spent the most recent 40 years of its dissolute life in a California landfill.



Kids need two things in order to have a sunshine-filled rest of their lives. First, they need to be soaked in love from their parents and other concerned adults. Second, they need a real education.

real education = broad and deep

**Broad:** In the government schools they herd 25 students into a room, and someone talks to them about history for 50 minutes. A bell rings and the students head into another room, and someone talks to them about art for 50 minutes. A bell rings and they head into another room, and someone drills them on their math tables.

This is unnatural. There is an essential inner coherence among all the areas of learning. We are supposed to be teaching children—not subjects. In this book, the reader will learn what an apiarist is, what it means to pencil out a proposed business venture, how to make steel, why bees make their honeycombs in the shape of hexagons and not squares or octagons, and how you can tell terbium from copper. All these arise in Fred’s everyday life.

And we even do a bit of math!

**Deep:** It’s real simple. I know of no other math curriculum (Saxon, Singapore, Math-U-See, Teaching Textbooks, etc.) that contains more mathematics than the Life of Fred series.

### HOW THIS BOOK IS ORGANIZED

Each chapter is about six pages. Have a paper and pencil handy before you sit down to read so you can do the Your Turn to Play at the end of each chapter.

Don’t just read the questions and look at the answers. Your child won’t learn as much taking that shortcut.

In Chapter 12, the reader will be asked to make Fred’s Honey Cards. It will take five sheets of paper, scissors, and a pencil. The total cost will be around 6¢.

### CALCULATORS?

Not now. There will be plenty of time later when you hit Pre-Algebra. Right now in arithmetic, our job is to learn the addition and multiplication facts by heart. That’s where Fred’s Honey Cards will come in handy.

# Contents

Chapter 1	Colors..... 13
	coloring 18 aquatic plants using crayons
	naming 36 shades of blue
	the natural numbers, the whole numbers
	counting by threes
	sets closed under addition
Chapter 2	Life's Mysteries..... 19
	having a job that matters
	$d = rt$
	a quarter of an hour
	a gallon of water weighs about eight pounds
	the cardinal numbers
	finite numbers
Chapter 3	Early Morning Hours..... 25
	how to deal with difficult situations
	time zones
	southeast
	the Milky Way
	one trillion = 1,000,000,000,000
	how to multiply by one million
	$2^4$
	protons
	periodic table of the elements
Chapter 4	Houses..... 32
	functions, domains, and codomains
	$1\frac{1}{2} + 1\frac{1}{2}$
	eight points of the compass
	Millard Fillmore, our 13 <sup>th</sup> president
	constant functions

Chapter 5	His Sleeping Bag. . . . .	37
	sheet music for “Morning Song”	
	safely crossing the street	
	bragging	
	ordinal numbers	
	solving $5 + x = 13$	
Chapter 6	Enough Rope. . . . .	43
	six ideas to solve a problem	
	greater than ( $>$ )	
	division	
	$12 \div 3$ or $\frac{12}{3}$ or $3 \overline{)12}$	
	remainders	
	sequences	
Chapter 7	Feet into Yards. . . . .	49
	how to do long division	
	dancing the foxtrot	
	56,382 feet = 18,794 yards	
	hip fractures	
	three reasons to learn long division despite the existence of calculators	
Chapter 8	Short Cowboy. . . . .	56
	kids don’t shave	
	four times table	
	disadvantages of being married to a calculator	
Chapter 9	Math Easier than English. . . . .	61
	79 facts that English teachers have to teach	
	kindergartners	
	the Greek alphabet	
	only 36 multiplication facts	
	tic-tac-toe with 16 squares instead of 9	
	why you shouldn’t squeeze a toothpaste tube really hard	
	playing Guess-a-Function	

Chapter 10	Carrie. . . . .	67
	when to wear a bow tie	
	essay: A Balance in Life	
	one times table and zero times table	
	where honey comes from—four answers	
	where bees live—four answers	
	hexagons and octagons	
	rhombus	
	square	
	why bees make honeycombs in the shape of hexagons	
Chapter 11	Honey Cards. . . . .	73
	smelting iron ore	
	2%	
	one billion, three hundred million	
	why use plastic scissors	
	how many cuts to convert a hexagon into triangles	
	pentagons	
Chapter 12	Ducky or Honey. . . . .	79
	comparing Ducky brand flash cards to Honey Cards	
	how to make Honey Cards	
Chapter 13	Fred's New Hobby. . . . .	85
	renting a hive to bees	
	bauxite to make aluminum	
	<i>farther</i> vs. <i>further</i>	
	17% water	
	creating an apiary and determining the costs	
Chapter 14	Starting a Business. . . . .	91
	Kingie's famous checklist for starting a business	
	how to pencil out a business proposal	
	how to figure out whether to +, -, ×, or ÷	
Chapter 15	Unstoppable Fred. . . . .	97
	$418 = 400 + 10 + 8$	
	drawbacks to various business ideas	
	drawbacks to ignoring reality	
	uses of a smoke generator	

Chapter 16	Fred Stopped. . . . .	103
	who in real life gets so wrapped up in an idea that they stubbornly insist on charging ahead even though there is every indication that the results will be disastrous getting a credit card sleeping bags sold by the inch	
Chapter 17	Fishing. . . . .	109
	looking at the mistakes we have made in our lives July is the seventh month of the year converting inches to feet divisors	
Chapter 18	Free Stuff. . . . .	115
	do zeros mean nothing? converting yards into feet past tense of verbs ending in c <i>hold on</i> has at least two meanings <i>go</i> has 84 different meanings what <i>magic</i> really means $6wx + 9wx$	
Chapter 19	Getting a Ladder. . . . .	121
	when the news on television isn't news results of going to rock concerts slope of a line slope in <i>Life of Fred: Beginning Algebra</i> slope in <i>Life of Fred: Trig</i> slope in <i>Life of Fred: Calculus</i>	
	Index. . . . .	125

# Chapter One

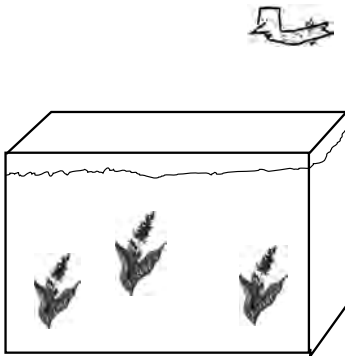
## Colors

**W**hen something new happens in your life, you often dream about it that night. That happened to Fred.

On Saturday, he got a goldfish and named it Fish. In the evening he watched it swim around in the tank while he talked to it about checkers, bicycles, dancing, fountain pens, and a zillion other topics.

It was now early Sunday morning. Fred was tucked into his sleeping bag under his desk.

He dreamed that Fish was flying around above his tank. Fish seemed to float in the air the way that he had floated in the water.

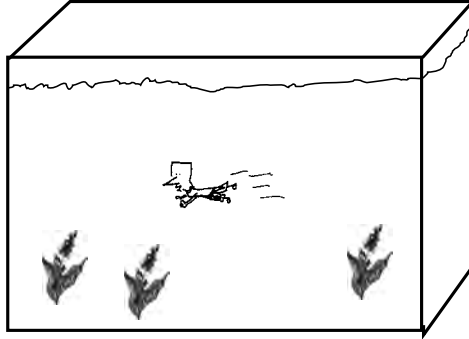


Fish seemed very happy. You could tell by the smile on his face. With silent fish-talk, he

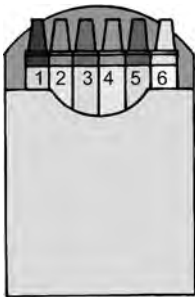


asked Fred if he would like to go swimming in the tank. Fred wanted to.

Each plant had six colors on it. All three plants had 18 different colors.



Fred could breathe underwater as easily as Fish could breathe the air.



In his dream, every box of crayons was different.

One box

yellow, orange, red, purple, violet, blue

One box

green, black, magenta, cyan, pink, gray

One box

brown, lavender, maize, silver, copper, gold

Three different boxes of crayons could color all the plants.  $3 \times 6 = 18$ .

Fred colored each plant. This doesn't make much sense because every plant was already colored. But in a dream almost anything can happen.



Fred had no trouble breathing underwater in his dream, but he was starting to feel cold and wet.

He looked at his skin. It was turning blue. All shades of blue: azure mist, Alice blue, baby blue, periwinkle, powder blue, Cornflower blue, sky blue, aquamarine blue, turquoise blue, Ukrainian Azure, United Nations azure, cerulean, Bondi blue, steel blue, agate blue, indigo, slate blue, Dodger, royal blue, denim, Swedish azure, cobalt blue, Persian blue, lavender, International Klein blue, Ultramarine, navy blue, sapphire, midnight blue, Prussian blue, teal, Palatinate, Federal blue, Phthalo blue, and Air Force blue.

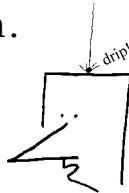
Fred awoke. He turned on the lamp and looked at the clock. It was much too early.



3:40 a.m.

He found out why he felt wet in his dream. He was wet. At first, he thought he had wet his sleeping bag. Then he realized that there was way to much water for that.

Then it hit him.



*Oh my!* Fred thought to himself. *There must be a plumbing leak. Or, maybe, it rained and the roof is leaking.*

Fred was wrong. The fish tank had leaked during the night.

He was sitting in five gallons of water. Fish was in zero gallons of water.



$$\begin{array}{r} 5 \\ - 5 \\ \hline 0 \end{array}$$

Fred climbed up onto his desk and took out the three plants and put them on his desktop. Those 18 colors would be fun to look at.

It was too early in the morning to call the janitor. Fred didn't have any parents. He had to clean everything up himself.

He took the tank and Fish down the hallway past the nine vending machines (four on the one side and five on the other), down the two flights of stairs, and out into the cold February night.

He said goodbye and put the tank and Fish into the dumpster.

As he climbed the stairs, he counted them:

1 2 3 4 5 6 7 8 9 10 11....

These are the **natural numbers**, also known as the counting numbers.

Fred dreamed of the day when he would be tall like Alexander. Alexander is about six feet tall.

Once Fred had seen Alexander go up the stairs three-at-a-time.

3 6 9 12 15 18 21 24 27

Please write out your answers. Don't just look at the questions and then look at the answers. Writing helps you to remember.

Your Turn to Play

1. If a box of crayons contains 8 colors. How many crayons are there in 3 boxes?
2. The commutative law of multiplication says that  $3 \times 8$  is the same as     ?    .
3. If a giant box of crayons had 77 colors in it, how many crayons would be in 3 giant boxes?
4. Sets are enclosed in braces. This is the set of whole numbers:  $\{0, 1, 2, 3, \dots\}$ .

If you add together two whole numbers, will your answer always be a whole number?

..... **ANSWERS** .....

1.  $3 \times 8 = 24$

2. In algebra, we say that the commutative law of multiplication is  $a \times b = b \times a$  (where  $a$  and  $b$  are any numbers).

$3 \times 8 = 8 \times 3$  by the commutative law of multiplication.

$$\begin{array}{r} 3. \quad \overset{2}{7}7 \\ \times \quad 3 \\ \hline 231 \end{array}$$

3 times 7 is 21. Write down the 1 and carry the 2.

3 times 7 is 21, plus 2, is 23.

4. The whole numbers are **closed under addition**: If you add two whole numbers, you will always get an answer that is a whole number.

The whole numbers are not closed under subtraction.

If you subtract 5 from 2, the answer can't be found in the set  $\{0, 1, 2, 3, 4, 5, 6, 7, \dots\}$ .

$$\begin{array}{r} 2 \\ - 5 \\ \hline ? \end{array}$$

# Index

- 17%..... 87  
2%..... 76  
36 multiplication facts. . . 62  
6wx + 9wx. . . . . 119  
advantage of street lights  
    ..... 28  
apiarist . . . . . 86  
apiary . . . . . 88  
apiculture . . . . . 87, 88  
Are people over 50 really  
    old?. . . . . 104  
bauxite . . . . . 86  
big question in arithmetic  
    —do I +, −, x, or / ?  
    . . . 94, 95, 102, 108, 111, 116  
billion . . . . . 76  
bow tie—when to wear one  
    ..... 67  
cardinal numbers. . . . .  
    . . . 23, 41, 65, 101, 102  
Central time zone. . . . . 26  
character—what it means to  
    have it . . . . . 24  
checklist for starting a  
    business.....  
    . . . 92-94, 97-101, 103  
closed under addition. . . . 18  
codomain. . . . . 33  
collecting rent from bees  
    ..... 85  
commutative law of  
    multiplication . . . . .  
    ..... 17, 18  
constant function..... 36, 48  
cost of an apiary . . . . . 90  
counting by threes..... 17  
counting numbers. . . . . 16  
credit cards . . . . . 105, 106  
crossing the street..... 38  
 $d = rt$  . . . . . 20, 27  
division . . . . . 45  
divisor . . . . . 113  
domain..... 33  
dysprosium . . . . . 31  
easier to shop than to study  
    ..... 88  
Eastern time zone..... 26  
eight points on a compass  
    ..... 35  
electrons..... 31  
English teachers have it a  
    lot rougher than math  
    teachers..... 61  
exponents..... 29, 30  
farther vs. further. . . . . 87  
Fillmore, Millard..... 35  
finite..... 24, 30  
four times table..... 58  
Fred's honey cards... 81, 82  
function . . . . . 33  
gallon of water = eight  
    pounds..... 22  
God's multiplication . . . . 70  
Graham Greene's *The Heart  
    of the Matter*. . . . . 64  
greater than > . . . . . 45

## *Index*

- Greek alphabet. . . . . 62
- Guess-a-Function game  
    . . . . . 23, 65
- handy way to carry a  
    toothbrush and  
    toothpaste . . . . . 57
- hexagon into triangles  
    . . . . . 77, 78
- hexagons . . . . . 71, 72
- hip fractures. . . . . 53
- Holland. . . . . 86
- houses come in many  
    varieties. . . . . 32
- how to make Fred's honey  
    cards. . . . . 83, 84
- how to make steel. . . . . 75
- inches to feet. . . . . 119
- infinite . . . . . 24
- invent a function . . . . . 47
- July—the seventh month  
    . . . . . 110, 115
- long division  
    . . . . . 49, 52, 111, 112
- looking back at the mistakes  
    we have made. . . . . 109
- magic—what that really is  
    . . . . . 118
- making big money . . . . . 91
- married to a calculator. . . . . 60
- Milky Way . . . . . 28
- “Morning Song” by Fred  
    Gauss. . . . . 37
- Mountain time zone. . . . . 26
- multiply by 10 . . . . . 29
- multiply by a 100. . . . . 29
- multiply by a million. . . . . 29
- natural numbers. . . . .  
    . . . . . 16, 23, 65
- Netherlands . . . . . 86
- neutrons. . . . . 31
- news on television. . . . . 121
- northwest. . . . . 34
- octagons . . . . . 71, 72
- one times table . . . . . 69
- ordinal numbers. . . . .  
    . . . . . 41, 42, 101, 102
- Pacific time zone. . . . . 26
- past tense. . . . . 64, 117
- penciling out a proposed  
    business  
    . . . . . 94, 95, 97
- pentagon . . . . . 78
- periodic table of the  
    elements . . . . . 31
- present tense. . . . . 117
- problems in life. . . . . 19
- protons. . . . . 29-31
- Proverbs 25:16. . . . . 80
- quarter of an hour. . . . . 21
- remainders. . . . . 47, 48
- rhombus . . . . . 72
- Row of Practice . . . . . 42, 66
- sequence. . . . . 47, 65
- shades of blue—36 of them  
    . . . . . 15
- slope of a line. . . . . 122, 123  
    in algebra . . . . . 123  
    in calculus. . . . . 123  
    in trig . . . . . 123

## *Index*

- small essays
  - A Balance in Life. . . . . 68
  - Bragging . . . . . 38, 39
  - Problems . . . . . 19
  - Reality. . . . . 100
  - The First Time. . . . . 50, 51
- smelting iron ore . . . . . 75, 76
- smoke generators—their use  
    . . . . . 101
- southeast. . . . . 27
- square. . . . . 72
- squeezing the toothpaste  
    tube four times as  
    hard as normal . . . . . 64
- steel scissors vs. plastic  
    scissors. . . . . 77
- terbium . . . . . 31
- three times table . . . . . 58
- three ways to indicate  
    division. . . . . 46
- tic-tac-toe game with four  
    squares. . . . . 63
- time zones. . . . . 26
- ton . . . . . 76
- trillion . . . . . 29
- where bees live—four  
    answers . . . . . 70, 71
- where honey comes  
    from—four answers  
    . . . . . 70
- whole numbers. . . . . 17, 23
- why honeycombs are  
    hexagons and not  
    anything else. . . . . 72
- why learn long division
  - when calculators  
    exist—three reasons  
    . . . . . 54, 55
  - yards into feet. . . . . 116
  - zero times table. . . . . 69