



# DynaMath

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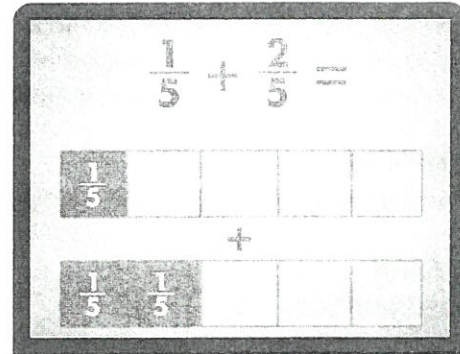
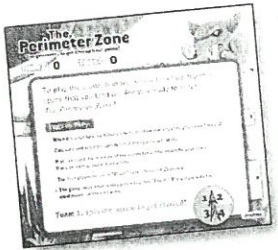
March 2015  
TEACHER'S GUIDE

SEPT	OCT	NOV/DEC	JAN	FEB	MAR	APR	MAY/JUNE
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Registration is now required to access your online resources.  
[www.scholastic.com/dynamath](http://www.scholastic.com/dynamath) Your access code: decimal

## Math fun and games!

Here at DynaMath, we have a passion for all things math. Our mission is to spread that passion to your students. We have a couple of tricks up our sleeve to do this. The first: We create irresistibly interesting articles about topics that kids can't wait to do the math on. The second: We aim to win them over with fun math games. In this issue, your students can play a perimeter game. In the last issue, students practiced mean, median, and mode with a free-throw shooting challenge. We produce a game for every issue. Take a look at [www.dynamath.scholastic.com](http://www.dynamath.scholastic.com).



FEATURE VIDEO:  
**Fraction Addition and Subtraction**

## SKILLS AND STANDARDS

PAGE	SKILL & ARTICLE TITLE	COMMON CORE STATE STANDARD	ONLINE MATERIALS <a href="http://www.scholastic.com/dynamath">www.scholastic.com/dynamath</a>
4	<b>FRACTION ADDITION/SUBTRACTION</b> Power Players	<b>Number and Operations—Fractions:</b> Add and subtract fractions.	<b>Skills Sheet:</b> Fraction Diagrams <b>Video:</b> Women in Sports <b>Video:</b> Fraction Addition/Subtraction
8	<b>DECIMALS</b> The Business of Bow Ties	<b>Number and Operations in Base 10:</b> Add, subtract, multiply, and divide decimals.	<b>Skills Sheet:</b> Multiply With Decimals
10	<b>DATA ANALYSIS</b> Wolverines vs. the Weather	<b>Measurement and Data:</b> Represent and interpret data.	<b>Skills Sheet:</b> Graph Analysis
12	<b>WRITING EQUATIONS</b> Crazy for Color!	<b>Operations and Algebraic Thinking:</b> Write and interpret numerical expressions.	<b>Skills Sheet:</b> Evaluating Expressions <b>Video:</b> Sneak Peek of Crayola's Factory
14	<b>AREA AND PERIMETER</b> The Bee Inn	<b>Measurement and Data:</b> Apply the area and perimeter formulas for rectangles.	<b>Skills Sheet:</b> Area and Perimeter <b>Video:</b> The Buzz on Bees <b>Game:</b> The Perimeter Zone



Video



Game



Skills Sheet



## PAGES 2-3: Numbers in the News

**BIRD BUILDERS:** 602 pieces

**HOW MANY LAKES?:** small lakes

**SHOCKING FASHION:** 15,000,000

## PAGES 4-7: Power Players

- $\frac{2}{3}$  (2 medals)
- $\frac{5}{16}$  (27 shots)
- $\frac{11}{12}$  (6 games)
- $\frac{2}{15}$  (5,000 points)
- $\frac{3}{14}$  (21 finalists)
- $\frac{78}{7}$  (11 games)

## PAGES 8-9:

### The Business of Bow Ties

1a. \$120

1b. \$4.80

1c. \$124.80

2a. 
$$\begin{array}{r} 60 + 5 \text{ thousandths} \\ 100 \begin{array}{|c|c|} \hline 6,000 & 500 \\ \hline \end{array} \\ 20 \begin{array}{|c|c|} \hline 1,200 & 100 \\ \hline \end{array} \end{array} = 7,800 \text{ thousandths}$$

2b. \$7.80

2c. \$127.80

3a. Answers will vary.

3b. 
$$\begin{array}{r} 600 + 15 \text{ tenths} \\ 10 \begin{array}{|c|c|} \hline 6,000 & 150 \\ \hline \end{array} \\ 2 \begin{array}{|c|c|} \hline 1,200 & 30 \\ \hline \end{array} \end{array} = 7,380 \text{ tenths} = \$73.80$$

4a. Answers will vary.

4b. 
$$\begin{array}{r} 1,000 + 200 + 60 + 3 \text{ tenths} \\ 20 \begin{array}{|c|c|c|c|} \hline 20,000 & 4,000 & 1,200 & 60 \\ \hline \end{array} \\ 8 \begin{array}{|c|c|c|c|} \hline 8,000 & 1,600 & 480 & 24 \\ \hline \end{array} \end{array} = 35,364 \text{ tenths} = \$353.64$$

5a.  $\$25.50 \times 85 = \$2,167.50$

5b. 
$$\begin{array}{r} 2,000 + 500 + 50 \text{ tenths} \\ 80 \begin{array}{|c|c|c|} \hline 160,000 & 40,000 & 4,000 \\ \hline \end{array} \\ 5 \begin{array}{|c|c|c|} \hline 10,000 & 2,500 & 250 \\ \hline \end{array} \end{array} = 216,750 \text{ tenths} = \$2,167.50$$

5c. Answers will vary.

## PAGES 10-11:

### Wolverines vs. the Weather

1a. Snow cover from 2000 to 2006

1b. Estimated snow cover in 2045

2. 2,000 square kilometers (sq. km)

3. Idaho, by about 9,000 sq. km

4. Yes, Washington's snow cover is projected to increase by 3,000 sq. km.

5. Answers will vary. The data in the graph can help scientists determine which wolverine habitats will be viable in the future and a wise place to allocate limited conservation resources.

## PAGES 12-13: Crazy or Color!

1.  $7,700 \text{ kg} \div 0.005 \text{ kg/crayon} = n$  number of crayons

$$n = 1,540,000 \text{ crayons}$$

2.  $\$0.99 - \$0.05 = x$

$$x = \$0.94$$

3.  $120 - (23 + 14 + 8) = x$

$$\text{or } 120 - 23 - 14 - 8 = x; x = 75$$

4.  $48 \text{ colors} \div 3 \text{ colors per day} = x$

$$x = 16 \text{ days}$$

5.  $16 \text{ days} \times 2 = y; y = 32 \text{ days}$

## PAGES 14-15: The Bee Inn

1a. 176 inches

1b. 1,920 square inches (sq. in.)

2. 20 inches

3a. 32 inches or 68 inches depending on the orientation of the bricks in the stack

3b. 64 sq. in.

4a.  $l \times 16 = 128 \text{ sq. in.}$

4b.  $l = 8 \text{ inches}$

5a.  $l \times 16 = 512 \text{ sq. in.}$

5b.  $l = 32$

5c. 4 blocks

## PAGE 16: The Puzzle Page

### MATH MASTER

1. B   2. A   3. B   4. A   5. C

**MATH BLOOPER:** The mean is actually 4. Lizzie divided her total by 4 instead of 5; she probably forgot to include the 0 as part of the data set.

**BRAINTEASER:** Here are two possible solutions.

