

MATH

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This issue is jam-packed with the skills you've told us you cover most: graphs, fractions, word problems, and algebraic formulas. The best part is that the skills are packaged with high-interest stories to grab your students' attention: a car that will try to break a speed record, Adam Levine of the hit TV show *The Voice*, facts about chocolate (just in time for Valentine's Day), and more!

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SKILLS GUIDE



= Calculator Use Suitable



= Critical Thinking



= Writing in Math

ARTICLE	MAJOR FOCUS	SUPPLEMENTARY SKILLS	NCTM STANDARDS	COMMON CORE STANDARDS
ACTIVITY: Cover Rocket-Powered Car!	Rate: mph	• Whole number -	1, 8, 9	RP, NS
FAST MATH: p. 2	Mixed skills	• Standard and metric measures, fractions to decimals, etc.	1, 4, 6, 8, 9	MD, NS
RATE OF SPEED Speed Racer, p. 4	Rate of speed	• Using a formula • Whole number \times , \div	1, 2, 4, 8, 9	RP, NS, EE
STATISTICS: GRAPHS Chocolate, p. 6	Reading a circle graph	• Reading a chart • Reading a bar graph	1, 5, 8, 9, 10	MD, NS, SP
CONSUMER MATH OMG! The Cost of Texts, p. 8	Consumer skills: Texting costs	• Reading a chart • Money $+$, $-$, \times	1, 4, 7, 8, 9, 10	MD, NS
MATH AT WORK Face of a Billionaire, p. 10	Reading a line graph	• Money $-$, \times • Analyzing data	1, 5, 7, 8, 9, 10	MD, NS
WORD PROBLEMS Crunch Your Lunch, p. 12	Word problems	• Whole number $+$, $-$, \times , \div • Fraction of a number	1, 4, 6, 8, 9	MD, NS
STATISTICS: CIRCLE GRAPH Wild Weather, p. 14	Reading a circle graph	• Decimal - • Converting percents to fractions	1, 4, 5, 8, 9, 10	MD, NS, SP
PRE-ALGEBRA Judge Adam Returns, p. 16	Reciprocals	• Mixed #s as improper fractions • Improper fractions as mixed #s	1, 8	NS

LISTS OF STANDARDS
ON PAGE T4



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Association of
Educational Publishers



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SUPPLEMENT TO SCHOLASTIC MATH

ANSWERS

COVER: ROCKET-POWERED CAR!

The Bloodhound is five times faster.

PAGE 2: FAST MATH

✓ Goats Don't Grow on Trees

The argan tree is 35 feet tall.

✓ Calendar Catch-Up

Six hours is $\frac{1}{4}$ or 0.25 of the day.

✓ Bugging Out

The giant weta is 70,690 mg heavier.

PAGE 4: SPEED RACER

- 1a. 12.7 miles b. 4 miles faster
2. 1.4 more minutes 3. 604 mph
4. 780 mph
5. about 38.7 minutes

PAGE 6: CHOCOLATE

1. D 2. C 3. B 4. B 5. B 6. D
7. United States 8. 72 pounds
9. Answers will vary. The countries that produce cocoa aren't the ones that are eating it in large quantities.
10. Answers will vary.

PAGE 8: OMG! COST OF TEXTING

- 1a. \$21 b. \$11 less
2a. Horizon b. \$1.50 c. yes d. no
3. \$75
4. Horizon's 1,000-messages plan, because it is the cheapest for a person who sends fewer than 1,000 texts.
5a. \$21.50 b. \$1.50 less

PAGE 10: FACE OF A BILLIONAIRE

- 1a. 11 shares b. \$7,700
2. \$250
3. bought at the IPO or August 2004 and sold at the end of 2007
4. \$700
5. Yes, because in 2008 the price of the stock started to plummet.

PAGE 12: CRUNCH YOUR LUNCH

1. 6 g
2a. 5 servings b. 105 g protein
3. 10 g pupae, 20 g beetles
4. 14 g protein, 4 g fat
5. 13 g protein

PAGE 14: WILD WEATHER

1. C 2. C 3. A 4. B 5. C

PAGE 16: JUDGE ADAM RETURNS

- A. $1\frac{3}{8}$ C. $1\frac{3}{14}$ E. $\frac{19}{57}$
B. $1\frac{6}{7}$ D. $\frac{5}{9}$ F. $\frac{1}{12}$

Adam said, "I think between the four of us, we all have no problem being OPEN, HONEST, RAW, AND REAL."

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- An issue skills-review quiz
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For the answers, click on "Teaching Resources."

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Common Core State Standards for Mathematics

- | | |
|--|-----------------------------|
| MD Measurement and Data | G Geometry |
| RP Ratios & Proportional Relationships | SP Statistics & Probability |
| NS The Number System | F Functions |
| EE Expressions & Equations | |

To see the specific standards for your grade level, visit www.corestandards.org/thestandards/mathematics

NCTM Middle School Curriculum Standards

- | | |
|--------------------------------|------------------------|
| 1. Number and Operations | 6. Problem Solving |
| 2. Algebra | 7. Reasoning and Proof |
| 3. Geometry | 8. Communication |
| 4. Measurement | 9. Connections |
| 5. Data Analysis & Probability | 10. Representation |

For more detailed information about the National Council of Teachers of Mathematics Standards, visit www.nctm.org/standards/

POSTAL INFORMATION: SCHOLASTIC MATH MAGAZINE (ISSN 0198-8379; in Canada, 2-c no. 9386; USPS 567-350) is published 12 times during the school year; biweekly September, November, March; monthly January, February, April, May, October, December, with 11/7 & 11/21 as a combined issue; by Scholastic Inc., 2931 E. McCarty St., P.O. Box 3710, Jefferson City, MO 65102-3710. Periodical postage paid at Jefferson City, MO 65102 and additional mailing offices. POSTMASTERS: Send notice of address changes to SCHOLASTIC MATH MAGAZINE, 2931 East McCarty St., P.O. Box 3710, Jefferson City, MO 65102-3710. **PUBLISHING INFORMATION: U.S. prices: \$8.25 each per year, \$5.45 per semester, for 10 or more subscriptions to the same address. Fewer than 10 subscriptions, each: \$24.95 student, \$29.99 Teacher's, per school year. Single copy: \$5.50 student, \$6.50 Teacher's.** Communications relating to subscriptions should be addressed to SCHOLASTIC MATH MAGAZINE, 2931 East McCarty Street, P.O. Box 3710, Jefferson City, MO 65102-3710, or call toll-free: 1-800-SCHOLASTIC, or on the Web, www.scholastic.com/custsupport. Communications relating to editorial matter should be addressed to Andrew Klein, SCHOLASTIC MATH MAGAZINE, 557 Broadway, New York, NY 10012-3999. E-mail address: MathMag@scholastic.com. Copyright ©2012 by Scholastic Inc. All Rights Reserved. Material in this issue may not be reproduced in whole or in part in any form or format without special permission from the publisher.