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ISSUE DATES	9/3	9/17	10/8	10/29	11/19	12/10	1/14	2/4	3/4	3/25	4/15	5/6
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### Use MATH to Make Real-World Connections

This issue of Scholastic MATH is packed full of the math skills you've told us you need to help you meet the new Common Core standards: fractions, percents, statistics, volume, and more!

Students will make real-world math connections with articles about healthy food portions so they can calculate a healthy serving. They'll find out about the newest trends in holiday-shopping bargains and learn how to calculate their savings and spending.

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## SKILLS GUIDE

FEATURES	MAJOR FOCUS	COMMON CORE STANDARDS	ONLINE MATERIALS: <a href="http://www.scholastic.com/math">www.scholastic.com/math</a>
<b>WORD PROBLEMS</b> Bringing Middle-earth to Life, p. 4	Word problems	• Measurement & Data, The Number System, Expressions & Equations	• Download a skills sheet • Watch a video
<b>POWERS OF 10: PH SCALE</b> No Swimming!, p. 6	Powers of 10	• Measurement & Data, The Number System, Expressions & Equations	• Download a skills sheet
<b>FRACTIONS &amp; PERCENTS</b> Portion Percents, p. 8	Converting fractions to percents	• Ratios & Proportional Relationships, The Number System	• Download a skills sheet • Watch an instructional video
<b>VOLUME</b> Subzero Sleepover, p. 10	Volume	• Measurement & Data, The Number System, Expressions & Equations, Geometry	• Download two differentiated skills sheets • Watch a video
<b>STATISTICS</b> Holiday Travel Stats, p. 12	Reading charts and graphs	• Measurement & Data, The Number System, Expressions & Equations, Statistics & Probability	
<b>CONSUMER MATH</b> Bargain Hunters, p. 14	Money math	• Ratios & Proportional Relationships, The Number System, Expressions & Equations	• Download a skills sheet
<b>DIVIDING DECIMALS</b> Sibling Singing Success, p. 16	Dividing decimals	• The Number System, Expressions & Equations	• Play a game

LIST OF ONLINE RESOURCES ON PAGE T8



# Answers

## COVER: THE HOBBIT

The ratio of what the first movie made to the second two is 158 to 363, or  $\frac{158}{363}$ .

## PAGE 2: NUMBERS IN THE NEWS

### Superbus!

Eleven more Superbuses would be needed.

### Spiraling Stars

The Tadpole galaxy is 428 million light-years from Earth.

### Discovering Mona Lisa

Gherardini died 36 years after Leonardo finished painting the *Mona Lisa*, and her remains were discovered 470 years after she died.

### Do the Math!

It takes Pluto 249 Earth years to orbit the sun.

## PAGE 4: MIDDLE-EARTH

1. about 26 hours
2. 1,600 ounces
3. about 37 mm of glue per day
4. about 360 km
5.  $\frac{39}{300}$

## PAGE 6: NO SWIMMING!

- 1a. acid
- 1b. 10 times
2. 100,000 times
3. 11
4. 10,000 times
- 5a. 11
- 5b. the same

## PAGE 8: PORTION PERCENTS

1. 50% veggies and fruit, 25% grains, 25% lean chicken or fish
2. 54.8%, no
3. 70.7%
4. 300%
5. 29.3% spinach, 41.5% pasta, 68.3% chicken

## PAGE 10: SUBZERO SLEEPOVER

1. 99 feet<sup>3</sup>
2. 40 feet<sup>3</sup>
3. 5,652 feet<sup>3</sup>
4. 17 feet
5. sphere by 7,065 inch<sup>3</sup>

## PAGE 12: HOLIDAY TRAVEL STATS

1. D
2. B
3. D
4. C
5. D
6. D
7. \$22
8. The recession caused an immediate dip in holiday travel, but holiday travel picked up in the years following.
9. \$0.73 higher
10. about \$24.11

## PAGE 14: BARGAIN HUNTERS

- 1a. \$32.40
- 1b. no, \$32.75
2. \$189.28
3. no, you need \$1.34 more
4. 15% off
5. \$15.80

## PAGE 16: SIBLING SINGING ...

- A. 65
  - B. 5,800
  - C. 312,000
  - D. 148
  - E. 896.5
  - F. 489,000
  - G. 750,000
- Brandon says, "We want to show people that

it's not an overnight success. It takes **A LOT OF HARD WORK AND DEDICATION.**"

## T6: MORE MATH, PP 14-15

1. Yes
2. The sports store by \$1.63
3. yes; \$48.98
4. \$36.05
5. \$84.80

## T7: SKILLS REVIEW

1. C
2. \$21.15
3. 80%
4. acid
5. 10,000,000 times
6. 640 liters
7. D
8. 12.5%
9. D
10. \$20.12

At [www.scholastic.com/math](http://www.scholastic.com/math), click on "Skills Sheets" to download:

- An issue skills-review quiz
- "More Math!" questions for pages 4-5, 6-7, 8-9, and 14-15
- Basic and advanced differentiated-instruction activities related to "Subzero Sleepover" on pages 10-11

For the answers, click on "Teaching Resources."

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