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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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**Make S.T.E.M. connections with MATH!**

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: ratios & proportions, fractions, percents, statistics, and more! Many of this month's articles have a Halloween theme, while making science connections. There's a stats page about human and animal skeletons; an article about super sized-spider brains and animal intelligence; and a story about a meat product called "pink slime," and other nasty junk that can end up in processed foods.

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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>RATIOS</b> Giant Spider Brains! p. 4	Ratios	• Measurement & Data, Ratios & Proportional Relationships, The Number System	• Download a skills sheet
<b>STATISTICS</b> Skeleton Stats, p. 6	Statistics	• Measurement & Data, The Number System, Statistics & Probability	
<b>FRACTIONS &amp; PERCENTS</b> Mystery Meat, p. 8	Finding the fraction equivalent of a percent	• Ratios & Proportional Relationships, The Number System	• Download a skills sheet
<b>PROPORTIONS</b> Good Points? p. 10	Proportions	• Ratios & Proportional Relationships, The Number System, Statistics & Probability	• Download a skills sheet
<b>DISTANCE ON A COORDINATE PLANE</b> Bird Gliders, p. 12	Distance on a coordinate plane	• Measurement & Data, The Number System, Expressions & Equations, Geometry	• Watch a video • Download two differentiated skills sheets
<b>SCIENTIFIC NOTATION</b> Great Heights? p. 14	Scientific notation	• The Number System, Expressions & Equations	• Watch a video • Play a game
<b>CONVERTING FRACTIONS TO DECIMALS</b> Fun Size Fractions! p. 16	Converting fractions to decimals	• The Number System, Expressions & Equations	

**LIST OF ONLINE RESOURCES ON PAGE T8**

PHOTO: SCOT MASON



# Answers

## COVER: UNDER YOUR SKIN

The bones of a 100-pound child would weigh about 20 pounds.

## PAGE 2: NUMBERS IN THE NEWS

### Big Dip

The Crystal Lagoons have about 8,648,093 cubic feet more water than an Olympic-size pool.

### Dark Days

About 55% of India's population lost power.

### Serving Up a Record!

Groth's serve was 239.7 feet per second.

### Do the Math!

Ewen blew up 582 balloons in an hour.

## PAGE 4: GIANT SPIDER BRAINS

**For chart:** chimpanzee: 1 to 107, cat: 30 g, Asian elephant: 1 to 553, kangaroo: 35,000 g, jaguar: 1 to 637

1. jaguar

2a. 980 g 2b. 1,050 times heavier

3. brain: 1 ounce, body: 116 ounces

4. 3 times bigger 5. .1 grams more

## PAGE 6: SKELETON STATS

1. C 2. D 3. D 4. C 5. B 6. A

7.  $\frac{4}{3}$  8. about 19 more bones  
9. radius 10. no, reasons will vary

## PAGE 8: MYSTERY MEAT

1.  $\frac{1}{20}$  2.  $\frac{x}{320} = \frac{1}{10}$ ;  $x = 32$  ounces  
3. 75 chips 4. 3 ounces 5. 30 grams;  $\frac{3}{50}$

## PAGE 10: GOOD POINTS?

1a. Pierce 1b. 2.2 2a. James 2b. 2.1  
3a. Novak 3b. .1 4a. Howard 4b. .6  
5a. Nash 5b. .8

## PAGE 12: BIRD GLIDERS

1c. 3.6 units 2. 4.5 units 3. 2.8 units  
4. 1 horizontally, 5 vertically  
5. 5.7 units

## PAGE 14: GREAT HEIGHTS?

1.  $2.7766 \times 10^4$  feet  
2.  $2.3735 \times 10^4$  ft or  $2.3749 \times 10^4$  ft  
3.  $5.803 \times 10^4$  feet or  $5.8058 \times 10^4$  ft  
4.  $3.39 \times 10^5$  inches  
5.  $2.8228 \times 10^4$  feet or  $2.82308 \times 10^4$  ft  
1.4906  $\times 10^3$  ft or 1.4934  $\times 10^3$  ft taller

## PAGE 16: FUN SIZE FRACTIONS!

A. .8 B. .7 C. .3125 D. .2 E. .15  
F. .165 G. .036

Victoria says, "I LOVE SEEING ALL THE CREATIVE COSTUMES."

## T6: MORE MATH, PP 14-15

1.  $2.74827 \times 10^5$  or  $2.74841 \times 10^5$   
2.  $6 \times 10^3$   
3.  $2.22 \times 10^3$  or  $2.234 \times 10^3$  feet  
4.  $2.39 \times 10^3$  feet 5.  $3.059 \times 10^3$  feet

## T7: SKILLS REVIEW

1. B 2. 4,608 cubic feet 3. 279  
4. In any right triangle with side lengths  $a$ ,  $b$ , and  $c$ ,  $a^2 + b^2 = c^2$   
5.  $\frac{15.5}{35.5} = \frac{x}{36}$   
6. 15.7 7. D 8.  $\frac{3}{5}$  9. B 10. .45

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, 8–9, and 10–11
- Basic and advanced differentiated-instruction activities related to "Bird Gliders" on pages 12–13

For the answers, click on "Teaching Resources."

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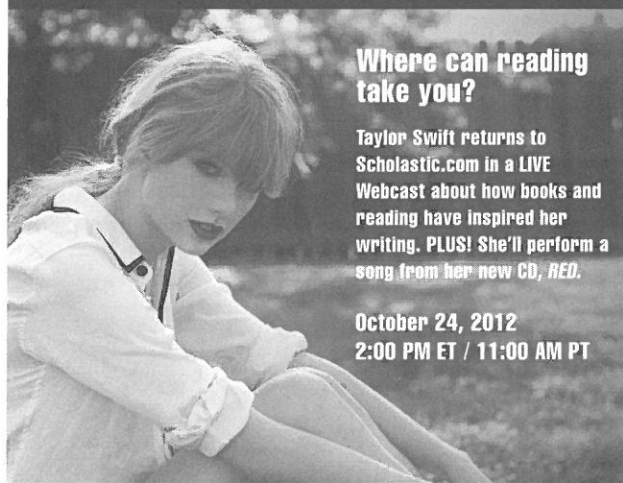
TAYLOR SWIFT:  
READ EVERY DAY!

A Live Webcast

Where can reading take you?

Taylor Swift returns to Scholastic.com in a LIVE Webcast about how books and reading have inspired her writing. PLUS! She'll perform a song from her new CD, *RED*.

October 24, 2012  
2:00 PM ET / 11:00 AM PT



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