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ISSUE DATES	9/2	9/16	10/7	10/28	11/18	12/9	1/13	2/3	3/3	3/24	4/14	5/5
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Have we got an amazing issue in store for you! It features great math connections and articles sure to grab students' attention. They'll read about Hollywood's love of turning comic books into movies, the latest food fad of eating invasive fish species, a teen who built his own submarine, and efforts to cut down on fake fouls in basketball. Plus, just in time for Halloween, there's an article on growing the world's largest pumpkin and a spooky blood stats page.

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Best wishes, The Editors



## SKILLS GUIDE

PAGE	SKILL & ARTICLE TITLE	COMMON CORE STATE STANDARDS	ONLINE RESOURCES: <a href="http://www.scholastic.com/math">www.scholastic.com/math</a>
4	<b>Financial Literacy</b> Invaders on the Menu	<b>The Number System:</b> Fluently add, subtract, multiply, and divide multi-digit decimals.	<ul style="list-style-type: none"> <li>Download a skills sheet</li> <li>Watch a background video</li> </ul>
6	<b>Data Analysis</b> Cashing In on Comics	<b>Statistics &amp; Probability:</b> Recognize a statistical question as one that anticipates variability in the data.	<ul style="list-style-type: none"> <li>Download a skills sheet</li> </ul>
8	<b>Statistics</b> Blood Stats	<b>Statistics &amp; Probability:</b> Summarize numerical data sets in relation to their context.	<ul style="list-style-type: none"> <li>Enlarge pop-up charts and graphs</li> </ul>
10	<b>Mean, Median, and Mode</b> It's the Great Pumpkin	<b>Statistics &amp; Probability:</b> Give quantitative measures of center and variability.	<ul style="list-style-type: none"> <li>Download a skills sheet</li> <li>Watch an instructional video</li> </ul>
12	<b>Percent of a Number</b> Foul Play	<b>Ratios &amp; Proportional Relationships:</b> Solve problems involving finding the whole, given a part and the percent.	<ul style="list-style-type: none"> <li>Download two differentiated skills sheets</li> </ul>
14	<b>Measurement</b> Teen Submarine	<b>The Number System:</b> Fluently divide multi-digit numbers using the standard algorithm.	<ul style="list-style-type: none"> <li>Download a skills sheet</li> <li>Watch a background video</li> </ul>
16	<b>Fractions to Percents</b> Spooky Special	<b>Ratios &amp; Proportional Relationships:</b> Find a percent of a quantity as a rate per 100.	<ul style="list-style-type: none"> <li>Play a game</li> </ul>

## COVER

### Thor's Back

The Avengers made about \$633,500,000. (Note: Gross not exact due to rounding.)

## PAGES 2-3

### Numbers in the News

#### • MAMMOTH DISCOVERY

As a power of 10, 10,000 is written as  $10^4$ .

#### • SIZZLING CENTER

The temperature of Earth's inner core is 10,832°F.

#### • PRETTY IN PINK

A garden slug is approximately  $\frac{1}{4}$  inches long.

#### • DO THE MATH!

The world's largest bus is 98 feet long.

## PAGE 4

### Invaders on the Menu

1. \$45.00
2. \$0.81
- 3a. \$33.75
- 3b. 2.6 pounds
4. 2.53 more pounds
5. \$54.25

## PAGE 6

### Cashing In on Comics

1. about 7%
2. 7 more films
3. about 12 percentage points higher
4. about \$269,810,000
5. about \$270,900,000 each

## PAGE 8

### Blood Stats

1. B
2. D
3. C
4. B
5. B
6. C
7. 6 times
8. 6,205,000 units
9. about 34,529,000 people
10. about 116,143,000 people

## PAGE 10

### It's the Great Pumpkin

1. 1,683.6 pounds
2. 1,707 pounds
3. none
4. decreases by 5.9 pounds
- 5a. 1,751.8 pounds
- 5b. 257.2 pounds heavier

## PAGE 12

### Foul Play

1. 0.31%
2. 1.02%
3. 0.04%
- 4a. 0.03%
- 4b. 0.05%
- 4c. 0.02 percentage points
- 5a. 0.11%
- 5b. 0.67%

## PAGE 14

### Teen Submarine

- 1a. 12:44 p.m.
- 1b. 309 meters deeper
2. 4,472 meters deeper
3. February 8
4. 49 hours, 20 minutes
5. 4,494 meters

## BACK PAGE

### Spooky Special

- A. 25%
- B. 30%
- C. 35%
- D. 48%
- E. 50%
- F. 87.5%

Povenmire adds, "Yeah, but NOW IT'S EATING OUR KIDS' CANDY."

To find the answers online, click on "Teaching Resources."

# ANSWERS

## TG PAGE 5

### Skills Review

- B
- 53.6°F
- $10^8$
- \$53.25
- 60%
- C
- C
- \$6,000
- 93.75%
- mean: 18.6, median: 17, mode: 17

To find the answers online, click on "Teaching Resources."

## TG PAGE 6

### Problem of the Day

- 5,985.4°C hotter
- 7.4 and 0.21
- \$2,160,000
- $\frac{20}{100}, \frac{1}{3}, \frac{2}{10}$
- \$300,531,751
- 117.1 feet
- 4.5 pints
- 93
- \$1.26
- $\frac{2}{4}, 5\frac{2}{3}, \frac{1}{2}$
- 1,923 points (Note: This doesn't

reflect Anthony's exact season total because of rounding. He actually scored 1,930 points.)

- 90
- 59%
- $a = 3, b = 4, c = 6$   
(Also accept  $a = 3, b = 6, c = 4$ )
- \$12.00 per pound
- (-10,972 meters) - (-9 meters) = -10,963 meters, or a difference of 10,963 meters
- 56.5%
- 1,000,000 milligrams
- mean: 376 pounds, median: 370.5 pounds, mode: 367 pounds
- 10%

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