



# MATH

Where Math Gets Real™

TEACHER'S GUIDE  
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SUPPLEMENT TO SCHOLASTIC MATH



ISSUE DATES	9/1	9/15	10/6	10/27	11/17	12/8	1/12	2/2	3/2	3/23	4/13	5/4
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Registration is now required for access to your online resources.

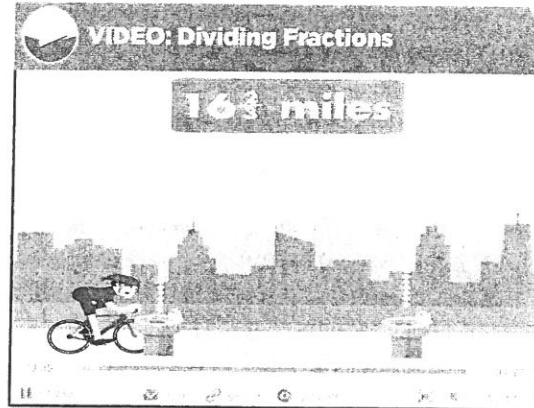
YOUR ACCESS CODE:

Dear Teacher,

We're past the school year's halfway point, and you may be embarking on a preliminary review of the skills you covered last fall. We have a handy resource to help you out: an archive of online printables. Every issue of *MATH* includes eight supplementary skills sheets, designed to solidify students' understanding. You can access the entire year's worth of skills sheets (and those from past years too) at [math.scholastic.com/printables](http://math.scholastic.com/printables) archive.

We hope you'll find the archive a useful launching pad for reviewing fundamental concepts and making real-world connections. Shoot us an e-mail at [mathmag@scholastic.com](mailto:mathmag@scholastic.com) to let us know what you think.

Best wishes, The Editors  
[mathmag@scholastic.com](mailto:mathmag@scholastic.com)



## 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>Dividing Mixed Numbers</b> POWER PLAYERS	<b>The Number System:</b> Convert mixed numbers into improper fractions and compute their quotients.	<ul style="list-style-type: none"> <li>Download a differentiated Common Core skills sheet, plus 5 More Questions.</li> <li>Watch an instructional video.</li> </ul>
6	<b>Measurement Conversions</b> SIZING UP A COLOSSAL CAVE	<b>Ratios &amp; Proportional Relationships:</b> Use ratio reasoning to convert measurement units.	<ul style="list-style-type: none"> <li>Download a differentiated Common Core skills sheet, plus 5 More Questions.</li> <li>Watch a background video.</li> </ul>
8	<b>Comparing Populations</b> THE BUGS ON US	<b>Statistics &amp; Probability:</b> Use numerical data to draw informal comparative inferences about two populations.	<ul style="list-style-type: none"> <li>Download a differentiated Common Core skills sheet, plus 5 More Questions.</li> <li>Watch a background video.</li> </ul>
12	<b>Statistics</b> MUSIC INDUSTRY MAYHEM	<b>Statistics &amp; Probability:</b> Summarize numerical data sets in relation to their context.	<ul style="list-style-type: none"> <li>Learn more with Web Links.</li> </ul>
14	<b>Double-Bar Graphs</b> BIRDS ON THE MOVE	<b>Statistics &amp; Probability:</b> Summarize and describe distributions by displaying numerical data in a double-bar graph.	<ul style="list-style-type: none"> <li>Download a differentiated Common Core skills sheet, plus 5 More Questions.</li> <li>Learn more with Web Links.</li> </ul>
16	<b>Triangles</b> COOL SIBS	<b>Geometry:</b> Describe geometrical figures and the relationships between them.	<ul style="list-style-type: none"> <li>Play a game.</li> </ul>

## PAGES 2-3

### NUMBERS IN THE NEWS

#### Light House

675.6 feet squared

#### Happy Pi Day

3.14159

#### Save Those Species

68%

#### Do the Math

52

## PAGE 4

### POWER PLAYERS

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

## PAGE 6

### SIZING UP A COLOSSAL CAVE

1a. About 8 football fields

1b. About 610 feet

2. About 397 Olympic-sized pools

3. About 4 Boeing 747 airplanes

4. The cavern's floor area is about 3 times as big as the area of the base of the Great Pyramid.

5. Volume is the better measurement because it takes into account all three dimensions (length, width, and height).

## PAGE 8

### THE BUGS ON US

1. Back and heel

2. Back 3a. Nostrils

3b. We can breathe in airborne viruses through our noses.

4. The distribution of microbes on the forearm is very similar to the distribution behind the knee: 85% bacteria (compared with 84%), 10% viruses (compared with 12%), and 5% fungi (compared with 4%).

5. Unlike the toenail, which has 90% bacteria, 9% viruses, and only 1% fungi, the nostrils have 51% viruses and only 47% bacteria (though their distribution of fungi is similar to the toenail's, at 2%). Outside the ear is also quite different from the toenail, with 71% bacteria, 17% fungi, and 12% viruses.

6a. 800,000 bacteria

6b. About 100,000 more viruses

7. About 50,000 more bacteria

8. Based on the body map, it appears that bacteria are the most common microbes on the human body.

## PAGE 12

### MUSIC INDUSTRY MAYHEM

1. C 2. A 3. C

4. C 5. B 6. C

7. \$446 million

8. About \$2 billion more

9. \$0.11 per iTunes song download

10. \$4.36 billion. Please accept all reasonable answers.

## PAGE 14

### BIRDS ON THE MOVE

1. See graph below.

2. The double-bar graph allows you to directly and visually compare two sets of data.

3. White-headed woodpecker

4. Cassin's finch

5. Cinnamon teal

## BACK PAGE

### COOL SIBS

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

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

### Ranges of Select U.S. Bird Species

