

## PAGES 2-3

### NUMBERS IN THE NEWS

#### Not-So-Mini-Pigs

6,567%

#### Check Your Neck

$f = 23$  pounds

$t = 41$  pounds

#### Printed Palace

About 360 layers

#### Do the Math

2.3

## PAGE 4

### DEEP DIVE

1. Refer to students' coordinate grids. Please accept all reasonable graph-based measurements.

2. 30 units    3. About 38 meters

4. About 290 meters

## PAGE 6

### STUNT MATH

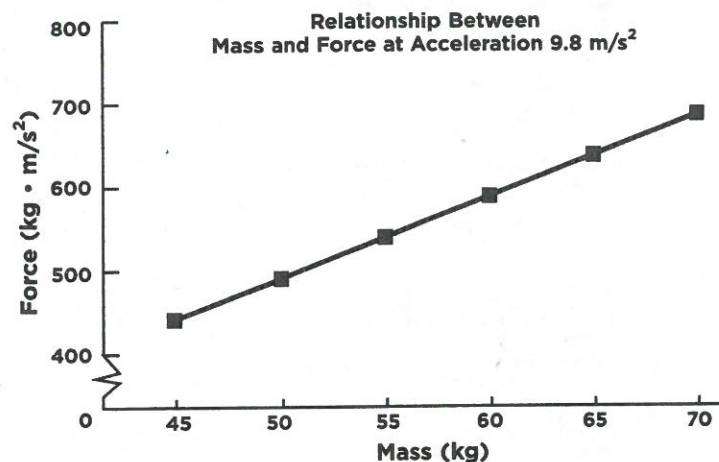
1.

Input	Function Rule	Output
Mass ( $m$ ) (kg)	$m \times 9.8$	Force ( $\text{kg} \cdot \text{m}/\text{s}^2$ )
45	$45 \times 9.8$	441
50	$50 \times 9.8$	490
55	$55 \times 9.8$	539
60	$60 \times 9.8$	588
65	$65 \times 9.8$	637
70	$70 \times 9.8$	686

2.  $637 \text{ kg} \cdot \text{m}/\text{s}^2$     3.  $980 \text{ kg} \cdot \text{m}/\text{s}^2$

4.  $F = 9.8 \times m$

5.



## PAGE 8

### WILD IN THE CITY

(Please accept all reasonable graph-based estimates.)

1. 15,000 meters

2. 8,000 meters

3. About 7,000 meters

4. 3 a.m.

5. Between 6 a.m. and 7 a.m.

6. Sleeping, eating, or waiting for nightfall to hunt

7a. About 9,000 meters

7b. The Chicago coyote is nocturnal; it has to do most of its traveling and hunting before the city wakes up.

8a. About 1,200 meters

8b. The Chicago coyote needs to hide during the city's morning rush, while the forest coyote is free to roam.

9. The Chicago coyote must go out of its way to avoid non-usable territory, such as buildings and roads, and people.

## PAGE 12

### CLIMBING MOUNT EVEREST

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

7. 79 climbers

8. 0 to 19

9. \$55,000

10. \$65,000

## PAGE 14

### GAME CHANGERS

1. (We used 3.14 for  $\pi$ .)

Sport	Ratio of Goal Area to Ball Area
Standard Golf	$\frac{14.2 \text{ square in.}}{2.2 \text{ square in.}}$
Hack Golf	$\frac{176.6 \text{ square in.}}{2.2 \text{ square in.}}$
Field Hockey	$\frac{12,096 \text{ square in.}}{6.6 \text{ square in.}}$
Basketball	$\frac{254.3 \text{ square in.}}{70.8 \text{ square in.}}$
Soccer (size 5 ball)	$\frac{27,648 \text{ square in.}}{58.7 \text{ square in.}}$

2. Basketball, standard golf, Hack golf, soccer, field hockey

3. 84.7 feet by 28.2 feet, or 1016.5 inches by 338.8 inches

4. Student answers will vary.

## BACK PAGE

### STILL GRUMPY

1. B

2. A

3. B

4. A

5. B

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

**SCHOLASTIC**  
Where Math Gets Real  
**MATH**  
TRY  
DAY 1  
A deep-sea  
1,514 feet t  
before de  
3,256 ft  
100 ft  
200 ft

**SCHOLASTIC**

# MATH

Where Math Gets Real™

TEACHER'S GUIDE  
MARCH 23, 2015

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SUPPLEMENT TO SCHOLASTIC MATH

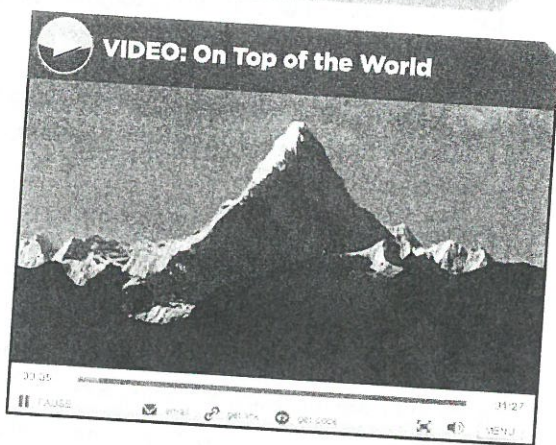


ISSUE DATES	9/1	9/15	10/6	10/27	11/17	12/8	1/12	2/2	3/2	3/23	4/13	5/4
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Registration is now required for access to your online resources.  
YOUR ACCESS CODE: **numerator**

her,  
ue of *MATH* covers a lot of ground. Readers will voyage from the  
the ocean in a deep-sea sub to the summit of the world's highest  
They'll learn about the physics that power Hollywood's most  
and meet Chicagoans' wild new neighbor, the urban coyote.  
tackle a range of new and review skills, from coordinate grids to  
ratios to cumulative line graphs, and more.  
ese exciting features can be supplemented with online resources  
ills sheets, videos, and games. As always, you'll find these  
online at [www.scholastic.com/math](http://www.scholastic.com/math).

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



## SKILLS GUIDE

SKILL & ARTICLE TITLE	COMMON CORE STATE STANDARDS	ONLINE RESOURCES <a href="http://www.scholastic.com/math">www.scholastic.com/math</a>
<b>Coordinate Grids</b> DEEP DIVE	<b>Number System:</b> Position pairs of integers on a coordinate plane, and understand signs of numbers in ordered pairs as indicating locations in quadrants.	<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>
<b>Functions</b> STUNT MATH	<b>Functions:</b> Understand that a function is a rule that assigns to each input exactly one output; define and evaluate functions based on real-world scenarios.	<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>
<b>Cumulative Line Graph</b> WILD IN THE CITY	<b>Statistics &amp; Probability:</b> Summarize numerical data sets in relation to their context.	<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>
<b>Statistics</b> CLIMBING MOUNT EVEREST	<b>Statistics &amp; Probability:</b> Summarize numerical data sets in relation to their context.	<ul style="list-style-type: none"> <li>Watch a background video.</li> <li>Learn more with Web Links.</li> </ul>
<b>Ratios</b> GAME CHANGERS	<b>Ratios &amp; Proportional Relationships:</b> Use ratio language to describe a relationship between two quantities.	<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>