



SCHOLASTIC

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,

The school year is winding down, the weather is warming up, and we bet your students are getting into a summer state of mind. Lucky for them, this issue is full of fun, summery stories! They'll meet an artist who creates giant murals on the shoreline, learn about recovering manatee populations off the coast of Florida, and dive into sweet statistics about a favorite warm-weather treat.

While you're enjoying your last issue of the year, we'll be hard at work planning for fall—and we'd love to hear from you! Let us know what worked best for you in recent issues, and what we can do better next year.

See you in September!

Best wishes, the Editors
mathmag@scholastic.com



SKILLS GUIDE

PAGE	SKILL & ARTICLE TITLE	COMMON CORE STATE STANDARDS	ONLINE RESOURCES www.scholastic.com/math
4	Angles in Polygons SHAPES IN THE SAND	Geometry: Use facts about angles in a multistep problem to write and solve simple equations for an unknown angle in a figure.	<ul style="list-style-type: none"> • Download a differentiated Common Core skills sheet, plus 5 More Questions. • Watch an instructional video and a background video. • Learn more with Web Links.
6	Algebraic Expressions BATTLE OF THE BOTS	Expressions & Equations: Use variables to represent quantities in real-world problems, and construct equations to solve them.	<ul style="list-style-type: none"> • Download a differentiated Common Core skills sheet, plus 5 More Questions. • Watch a background video. • Learn more with Web Links.
8	Scatter Plots MANATEES ON THE MOVE	Statistics & Probability: Interpret scatter plots. Describe patterns such as positive or negative association.	<ul style="list-style-type: none"> • Download a differentiated Common Core skills sheet, plus 5 More Questions. • Watch a background video. • Learn more with Web Links.
12	Statistics GET THE SCOOP ON ICE CREAM	Statistics & Probability: Summarize data sets in relation to their context.	<ul style="list-style-type: none"> • Learn more with Web Links.
14	Mixed Skills SUPER SKILLS	Mathematical Practice: For a variety of word problems, look for entry points, plan solution pathways, and check answers.	<ul style="list-style-type: none"> • Download a differentiated Common Core skills sheet, plus 5 More Questions. • Learn more with Web Links. • Play a game.
16	Pythagorean Theorem TRIPLE THREAT!	Geometry: Apply the Pythagorean theorem to determine unknown side lengths in right triangles.	<ul style="list-style-type: none"> • Download 5 More Questions on the Pythagorean theorem.

PAGES 2-3

NUMBERS IN THE NEWS

The World's Toughest Climb

157.9 feet per day

Happy Birthday, Hubble

4.13×10^{16} miles

Do the Math

108

PAGE 4

SHAPES IN THE SAND

1a. 6 sides 1b. 720°

2. 180° 3. 360°

4.

Angle	Measure
A	60°
B	76°
C	20°
X	124°
Y	116°

5a. 3 times angle X and 3 times angle Y

5b. The answers are the same: 720°

PAGE 6

BATTLE OF THE BOTS

1a. $\$100x + \$150y + \$200z$

1b. $\$700$ 1c. $\$1,400$

2a. $5t+2t$ or $7t$

2b. 70 minutes; yes, the batteries will run out.

3a. Students may assign a variable for points earned for each task ($x + y + z + a + b + c + d + e$) or may assign one variable to

the number of total task parts completed and a second to the number of bonus points received ($t + b$).

3b. Answers will vary. Atlas's actual scores at right.

Challenge	Points
Vehicle	0
Terrain	3
Ladder	1
Debris	1
Door	1
Wall	4
Valve	4
Hose	2
Total	16

PAGE 8

MANATEES ON THE MOVE

Please accept all reasonable graph-based estimates.

- See graphs below.
- Both trend lines show a positive relationship. This means that manatee counts have increased over time in both regions.
- Both trend lines indicate a positive trend in manatee counts each year. However, the west region's trend line suggests a steadier, less erratic rise in counts than the east's.

4. 2001

5. 2015; about 3,400 sightings

6. 2002

7. Within the past few years, manatee counts have been on the rise, which seems to suggest that manatee populations are recovering in both areas.

8. East

9. Yes, because the trend line indicates increased manatee counts, which in turn suggest increased populations.

PAGE 12

GET THE SCOOP ON ICE CREAM

- B 2. B 3. A 4. D 5. C 6. A
- 3 times
- 502,590,000 gallons
- 764 adults
- That is not correct, because the adults polled were allowed to choose more than one favorite topping, and so the percent totals for each selection are not cumulative.

PAGE 14

SUPER SKILLS

- 144%
- Yes, with 5.4 seconds to spare
- $1\frac{3}{8}$ feet long
- $-37.9 \leq x \leq 674.1$
- 33 hours, 20 minutes

BACK PAGE

TRIPLE THREAT!

- A 2. B 3. B 4. A 5. B

