

**SCHOLASTIC**

# MATH

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## SKILLS GUIDE

 = Calculator Use Suitable     = Critical Thinking     = Writing in Math

ARTICLE	MAJOR FOCUS	SUPPLEMENTARY SKILLS	NCTM STANDARDS	COMMON CORE STANDARDS
ACTIVITY: Cover Extreme Angles	Angle measures	• Classifying angles	1, 3, 4, 8, 10	MD, G
FAST MATH: p. 2	 Mixed skills	• Metric to standard conversion; money +; percents; etc.	1, 4, 6, 8, 9	MD, NS, RP
GEOMETRY: ANGLES Extreme Angles, p. 4	 Classifying angles	• Drawing angles • Angle measures	1, 3, 4, 8, 9, 10	MD, G
PRE-ALGEBRA: RATIOS Mission to Mars, p. 6	Writing ratios	• Reading a chart • Simplifying fractions	1, 5, 8, 9, 10	MD, RP, NS, SP
STATISTICS: CHARTS The World in Stats, p. 8	Reading charts and graphs  	• Reading for detail • Analyzing data	1, 5, 8, 9, 10	MD, NS, SP
METRIC MEASUREMENT Megabridge, p. 10	Metric conversions	• Whole number $\times$ , + • Using a formula	1, 2, 4, 8, 9	MD, NS, EE
MATH AT WORK Count On Police Officers, p. 12	 Mixed skills	• Money +; fractions; mean; rate: mph; area; etc.	1, 3, 4, 6, 8, 9	MD, RP, NS, G
PRE-ALGEBRA: FORMULAS Filling Shaq's Shoes, p. 14	Using a formula	• Decimal +, -, $\times$ , + • Rounding decimals	1, 2, 4, 8, 9	MD, NS, EE
STAR SPOTLIGHT: Shaq Fraction Facts, p. 16	Fraction +, -	• Least common denominator • Simplifying fractions	1, 8	NS

**LISTS OF STANDARDS  
 ON PAGE T4**



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 Association of  
 Educational Publishers



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 RECYCLED PAPER.

SUPPLEMENT TO SCHOLASTIC MATH

# ANSWERS

## COVER: EXTREME ANGLES

Angle 4 has the same measure as angle 2.

## PAGE 2: FAST MATH

### ✓ Rabbit Olympics?

The record for the long jump is about 120 inches.

Snoopy would need to jump about 15.55 more inches.

### ✓ Comic Cash

You could buy 541,353 comics.

### ✓ Light as a Dandelion

0.01% of the material is not open volume.

## PAGE 4: EXTREME ANGLES

1. straight; acute; right; acute; obtuse
2. acute
3.  $40^\circ$
4.  $50^\circ$
5. The answer should show two skis crossed like a + sign.

## PAGE 6: MISSION TO MARS

1.  $\frac{6}{13}$
2.  $\frac{4}{19}$
3.  $\frac{5}{9}$  or 1
4.  $\frac{1}{2}$
5.  $\frac{7}{10}$

## PAGE 8: THE WORLD IN STATS

1. B
2. A
3. D
4. B
5. Greece and New Zealand
6. C
7. C
8. B
9. C
10. Answers will vary.

## PAGE 10: MEGABRIDGE

1. 45,700 centimeters
2. 22,900,000 liters
3. 5,790 decimeters
4. 4,400 centimeters higher
5. 7,600 millimeters long

**BONUS:** kg of steel

## PAGE 12: COUNT ON POLICE . . .

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

## PAGE 14: FILLING SHAO'S SHOES

- 1a.  $S = 3 \times 9.5 - 21$
- 1b. 7.5
- 2a. 12.3 inches
- 2b. 15 inches
- 3a. 19.7 inches
- 3b. 4.7 inches
- 4a. Answers will vary.

4b. Answers will vary. Be sure students have the correct formula.

4c. Answers will vary. Be sure students use the formula correctly.

5. Answers will vary.

## PAGE 16: SHAO FRACTION FACT

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

## GET ONLINE REPRODUCIBLES

At [www.scholastic.com/math](http://www.scholastic.com/math), click on "Skills Sheets" to download the following reproducibles:

- An issue skills-review quiz
- "More Math!" questions for pages 4–5, 12–13, and 14–15.
- Basic and advanced differentiated instruction activities related to "Mission to Mars" on pages 6–7

For the answers, click on "Teaching Resources."

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### Common Core State Standards for Mathematics

<b>MD</b> Measurement and Data	<b>G</b> Geometry
<b>RP</b> Ratios & Proportional Relationships	<b>SP</b> Statistics & Probability
<b>NS</b> The Number System	<b>F</b> Functions
<b>EE</b> Expressions & Equations	

To see the specific standards for your grade level, visit [www.corestandards.org/thestandards/mathematics](http://www.corestandards.org/thestandards/mathematics)

### NCTM Middle School Curriculum Standards

- |                                |                        |
|--------------------------------|------------------------|
| 1. Number and Operations       | 6. Problem Solving     |
| 2. Algebra                     | 7. Reasoning and Proof |
| 3. Geometry                    | 8. Communication       |
| 4. Measurement                 | 9. Connections         |
| 5. Data Analysis & Probability | 10. Representation     |

For more detailed information about the National Council of Teachers of Mathematics Standards, visit [www.nctm.org/standards/](http://www.nctm.org/standards/)



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