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## SKILLS GUIDE

ARTICLE	MAJOR FOCUS	SUPPLEMENTARY SKILLS	NCTM STANDARDS	COMMON CORE STANDARDS
<b>ACTIVITY: Cover</b> <b>Let the Games Begin!</b>	Mixed number $\times$	• Fraction $\times$	1, 8, 9	NS
<b>FAST MATH: p. 2</b>	Mixed skills	• Circumference of a circle, pi, fractions, metric measures	1, 4, 6, 8, 9	MD, NS
<b>PERCENTS</b> <b>The Fitness Games, p. 4</b>	Percents	• Decimal $\times$ • Rounding decimals	1, 2, 8, 9	NS
<b>MEAN, MEDIAN, &amp; MODE</b> <b>Raising the Score, p. 6</b>	Mean, median, & mode	• Reading a chart • Whole number $+$ , $-$ , $\times$ , $\div$	1, 5, 8, 9, 10	MD, NS, SP
<b>COMPUTATION</b> <b>Election Scorecard, p. 8</b>	Computation	• Percent of a number • Whole number $+$ , $-$ , $\times$ , $\div$	1, 4, 5, 6, 8, 9, 10	MD, NS
<b>AREA &amp; VOLUME</b> <b>Space Sailing, p. 10</b>	Area of a rectangle	• Perimeter of a rectangle • Volume of a rectangle	1, 3, 4, 8, 9	MD, NS, G
<b>POWERS OF 10</b> <b>On Shaky Ground, p. 12</b>	Powers of 10	• Reading a numerical scale • Reading for detail	1, 4, 5, 8, 9, 10	MD, NS
<b>READING A CHART</b> <b>Frozen Film, p. 14</b>	Reading a chart	• Solving for a variable • Whole number $\times$ , $\div$	1, 2, 4, 8, 9, 10	MD, NS, SP
<b>STAR SPOTLIGHT</b> <b>Taylor Gets Animated, p. 16</b>	Angles in a polygon	• Using a formula • Whole number $+$ , $-$ , $\times$ , $\div$	1, 2, 3, 4, 8	MD, NS, EE, G

LISTS OF STANDARDS  
ON PAGE T4

# ANSWERS

## COVER: LET THE GAMES BEGIN!

He will need  $16\frac{1}{2}$  cups of flour.

## PAGE 2: FAST MATH

### ✓ Massive Mars

The circumference of Mars is 13,250.8 miles.

### ✓ Flying High

2 meters and 20 centimeters

### ✓ Mammals at Risk

1,250 mammal species could become extinct.

## PAGE 4: THE FITNESS GAMES

1. 84 pounds      4. 105 pounds  
2. 88 pounds      5. 122 pounds  
3. 97 pounds

## PAGE 6: RAISING THE SCORE

- 1a. 49 points  
b. 48 points  
c. 46 & 58 points  
2a. 74 points    b. 75 points    c. 75 points  
3. 25 points greater

4. 27 points greater  
5. 49 points, 75 points

## PAGE 8: ELECTION SCORECARD

1. 466  
2. 20%  
3. 56%  
4. Mitt Romney (240 vs. 226)  
5. 68%-Massachusetts; 41%-Alaska

## PAGE 10: SPACE SAILING

1. 176 cubic inches  
2.  $P = 4s$  or  $P = s + s + s + s$  or  $P = 2s + 2s$   
3. 73.6 feet  
4a. 40 feet  
b. 100 square feet  
c. 4.32 cubic inches

## PAGE 12: ON SHAKY GROUND

1. B                      3. 100 times  
2. 7.6                  4. 10 times  
5. New Zealand

## PAGE 14: FROZEN FILM

- 1a. 100 years      b. 4,150 years  
2a. 333 years longer  
b. 14,615 years longer  
3. 40°F      4. 85 years      5. 7,055 years

## PAGE 16: TAYLOR GETS ANIMATED

- A. 35°      C. 142°      E. 74°  
B. 56°      D. 152°

## GET ONLINE REPRODUCIBLES!

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

- An issue skills-review quiz
- "More Math!" questions for pages 4–5, 6–7, 8–9, and 12–13
- Basic and advanced differentiated-instruction activities related to "Space Sailing" on pages 10–11

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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