

# DynaMath

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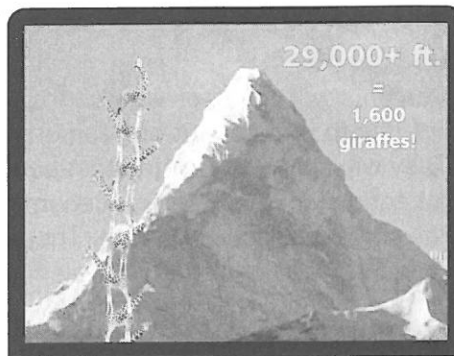
January 2015  
TEACHER'S GUIDE

|      |     |         |     |     |     |     |          |
|------|-----|---------|-----|-----|-----|-----|----------|
| SEPT | OCT | NOV/DEC | JAN | FEB | MAR | APR | MAY/JUNE |
|------|-----|---------|-----|-----|-----|-----|----------|

Registration is now required to access your online resources.  
[www.scholastic.com/dynamath](http://www.scholastic.com/dynamath) Your access code: decimal

## Flip your classroom at [www.scholastic.com/dynamath](http://www.scholastic.com/dynamath)

Looking for easy ways to flip your classroom? We can help. In the flipped classroom model, students watch recorded instruction on their own and then work on assignments, discussions, and assessments during class in collaboration with their teacher. Flipped classroom proponents love the flexibility this offers for student-directed learning. And of course, we love any ideas that help make your instructional goals a reality. So we created a "Video Lesson Library" on our website to provide easy access to all our instructional videos. Students can watch a video on, say, generating equivalent fractions, and then work on the problem sets with you. Check it out at: [dynamath.scholastic.com/Video-Lesson-Library](http://dynamath.scholastic.com/Video-Lesson-Library).



**FEATURE VIDEO:**  
On Top of the World

## SKILLS AND STANDARDS

| PAGE | SKILL & ARTICLE TITLE                               | COMMON CORE STATE STANDARD   | ONLINE MATERIALS<br><a href="http://www.scholastic.com/dynamath">www.scholastic.com/dynamath</a>                       |
|------|---|--|--|
| 4    | <b>EQUIVALENT FRACTIONS</b><br>Cleaning Up Everest  | <b>Number and Operations—Fractions:</b> Extend understanding of fraction equivalence and ordering.       | <b>Skills Sheet:</b> Equivalent Area Models<br><b>Video:</b> On Top of the World                                       |
| 8    | <b>CLASSIFYING ANGLES</b><br>Monster Truck Rally    | <b>Measurement and Data—Geometric Measurement:</b> Understand concepts of angles and measure angles.     | <b>Skills Sheet:</b> Measuring Angles<br><b>Video:</b> Monster Trucks  |
| 10   | <b>RATE</b><br>They've Got the Beat                 | <b>Ratios and Proportional Relationships:</b> Use ratio and rate reasoning to solve real-world problems. | <b>Skills Sheet:</b> Double Number Lines   |
| 12   | <b>FRACTIONS ON RULERS</b><br>Teen Fashion Designer | <b>Number and Operations—Fractions:</b> Extend understanding of fraction equivalence and ordering.       | <b>Skills Sheet:</b> Equivalent Fraction Pairs<br><b>Game:</b> Fraction Fashions<br><b>Video:</b> Equivalent Fractions |
| 14   | <b>MEASUREMENT CONVERSIONS</b><br>Crazy Views       | <b>Measurement and Data:</b> Convert like measurement units within a given measurement system.           | <b>Skills Sheet:</b> Practicing Metric Conversions   |

# ANSWER KEY



Log onto [www.scholastic.com/dynamath](http://www.scholastic.com/dynamath) and click on the "Teaching Resources" button to download this issue's answer keys.

## PAGES 2-3: Numbers in the News

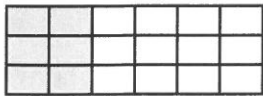
**BOUNCE UNDERGROUND:** 80 feet

**HAPPY NEW YEAR, SOUTH POLE:** 9.9 meters

**TERRIFIC TONGUE:** 14 pounds, 2 ounces

## PAGES 4-7: Cleaning Up Everest

1a.



1b. 6

1c.  $\frac{1}{3}$

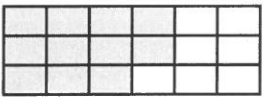
1d.



2.



3a.



3b. The models would look the same, as  $\frac{11}{18}$  can't be simplified.

4.



5a.



5b. 20 lbs

## PAGES 8-9: Monster Truck Rally

1a. red and green

3. right triangle

1b. blue tube

4.  $360^\circ$

2a. obtuse

5a. rectangle

2b. right

5b. triangles

2c. acute

## PAGES 10-11: They've Got the Beat

1a. 120 beats per minute

3b. 162 beats

1b. 2 beats per second

4a. 372 beats

1c. 10 seconds

4b.  $(100 \times 3) + (20 \times 3) + (4 \times 3) = 372$ ;

2a. 130 beats per minute

Yes, you get the same answer because of the associative property.

2b. 192 beats

5a.  $(106 \times 2) +$

3a.  $108 \times 1.5 = ?$

[Another possible answer:  $108 \times$

$(90 \times \frac{1}{60})$ ]

$(114 \times 2)$

5b. 440 beats

## PAGES 12-13: Teen Fashion Designer

1. 8

4. Answers will vary.

2.  $\frac{1}{8}$

Possible answers:

3. Answers will vary.



$\frac{10}{16}, \frac{15}{24}$

Possible answers:

$\frac{6}{8}, \frac{9}{12}, \frac{12}{16}$

5. Answers will vary.



Possible answers:

$\frac{6}{32}, \frac{9}{48}, \frac{12}{64}$

## PAGES 14-15: Crazy Views

1. 40,600 cm

4. 21.3 m

2. 120 cm

5a. 3,000 m

3. 3.8 km

5b. 300,000 cm

## PAGE 16: The Puzzle Page

### MATH MASTER

1. B   2. A   3. B   4. C   5. D

**MATH BLOOPER:** Frank counted an extra dollar. He should have started at \$47.25 and counted up from there. The correct amount of change is \$2.75.

**BRAINTEASER:** Answers will vary. Here is one possibility:

