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DynaMath

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MATH + SUMMER FUN!

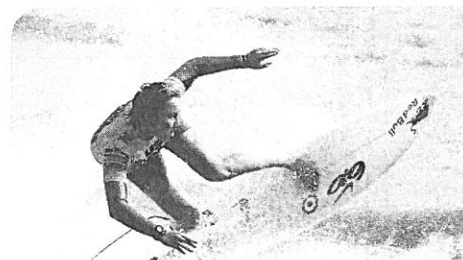
As the end of the school year approaches, your students will love this "Summer Fun" issue. In the magazine and at www.scholastic.com/dynamath, we show math that's part of building roller coasters, planning a road trip, and scouting out the perfect surfing spot.

And even though we all have summer on our minds, don't forget to renew your subscription to *DynaMath* now to ensure on-time delivery of our September issue. See page T7 for easy steps to renew.

Thank you for subscribing, and have a super summer!

Mathematically yours,

Matt Friedman, Editor



Surf's up on page 12!

Jeff Gross/Getty

SKILLS AND STANDARDS

PAGE	SKILL/ ARTICLE TITLE	NATIONAL MATH STANDARD (NCTM)	COMMON CORE STATE STANDARDS FOR MATHEMATICS	VIDEO/SKILLS SHEETS (at www.scholastic.com/dynamath)
4	RATE Cartoon Creator	Number and Operations: Add, subtract, multiply, and divide whole numbers.	Ratios and Proportional Relationships: Use ratio concepts to solve problems.	BASIC: Equivalent minutes and seconds ADVANCED: Proportions
6	MEASURING ANGLES Wild Rides	Measurement: Accurately find angle measures.	Measurement and Data: Measure angles using a protractor.	INSTRUCTIONAL VIDEO: How to measure angles using a protractor
8	TEMPERATURE Keeping Cool at the Zoo	Measurement: Become familiar with customary and metric units.	Measurement and Data: Conversion of measurements	BASIC: Read a thermometer INTERMEDIATE: Using a formula (step-by-step)
10	MILEAGE CHART Road Trip	Data Analysis and Probability: Represent data using tables.	Measurement and Data: Represent and interpret data.	ISSUE SKILLS REVIEW (page T6): Reviews this and other skills from the issue.
12	ELAPSED TIME Ruling the Waves	Measurement: Use appropriate units and tools to measure time.	Measurement and Data: Measurement of intervals of time	Elapsed time skills sheets in our "Issue Archive" for the February issue, pp. 12-13.
14	CHOOSE THE OPERATION Animal Athletes	Algebra: Represent and understand quantitative relationships.	Operations and Algebraic Thinking: Multiplication and division problems	INTERMEDIATE: Division with decimal quotients ADVANCED: Proportions

ANSWER BANK

(For student-edition answers, turn to page T8.)

PAGE T5: PROBLEM OF THE DAY

- DAY 1:** \$12.72
DAY 2: 120 miles
DAY 3: 448 \$1 bills
DAY 4: 16
DAY 5: 160 mushroom pieces
DAY 6: $\frac{1}{3}$ ($\frac{10}{30}$)
DAY 7: 50 mph
DAY 8: 1, 2, 3 ($1 + 2 = 3$)
DAY 9: 144 cranes
DAY 10: $3 \times 3 \times 3 \times 3 \times 3$ (product is 243, vs. 125)
DAY 11: 7:46
DAY 12: 80 years
DAY 13: 20 feet
DAY 14: $\frac{1}{4}$ of \$200 (\$50, vs. \$38)
DAY 15: 5 inches long
DAY 16: 5 cm
DAY 17: 24 hours longer

DAY 18: 30 minutes or $\frac{1}{2}$ hour

DAY 19: 47

DAY 20: 4 eggs

PAGE T6: ISSUE SKILLS REVIEW

1. C
2. A
3. B
4. D
5. A
6. 68°F
7. B
8. C
9. about 30° (Please accept estimates between 20° and 40° or another range that you find appropriate.)
10. D

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ANSWER BANK

(For Teacher's Edition answers, see previous page.)



This answer key, as well as solutions for all of the online-only differentiated activities, is at the Teacher tab at www.scholastic.com/dynamath.

COVER: WILD RIDES

3 inversions per coaster

PAGES 2-3: NUMBERS IN THE NEWS

Ice Cream Goes Crazy: \$22.65

Drive Like a Dolphin: 12 feet

Little Leaper: 8 millimeters long

PAGES 4-5: CARTOON CREATOR

1a. $24 \times 2 =$ total frames

1b. 48 frames

2. 144 frames

3. 384 frames

4. 13,392 frames

5. about 85 minutes

PAGES 6-7: WILD RIDES

Our answers are based on the actual angle drops for each coaster. Please accept all reasonable answers.

1. 79° 2. 60° 3. 121° 4. 50°

5. Here is one orientation of a 48° angle:



PAGES 8-9: KEEPING COOL AT THE ZOO

1a. 234

1b. 47

1c. 79°F

2. 54°F

3. 81°F

4. 29°F hotter

5a. 4°F hotter

5b. 13°F hotter

PAGES 10-11: ROAD TRIP

1. 2,485 miles

2a. 2,726 miles

2b. 3,264 miles

3. Salt Lake City, Utah

4. 1,137 miles farther

5. 15 hours

PAGES 12-13: RULING THE WAVES

1. 6:48 a.m.

2. May 9

3. 11 hours, 52 minutes

4. May 13

5. Answers will vary. If the tide tables are known far enough in advance, the planners might choose days with long afternoon periods between each day's low tide and the start of the next high tide.

PAGES 14-15: ANIMAL ATHLETES

1. 67,420 pounds more

2a. 420 feet high

2b. 412 feet higher

3a. 70 feet

3b. 1,000 feet

4. 160 feet

5. 8 seconds

PAGE 16: THE PUZZLE PAGE

Wimpy Kid, Cool Books: A

Truth Sleuth: You should go to the right. If you're talking to the lying sister, she will lie and say that her sister will tell you to go the wrong way: to the left. If you're talking to the sister who always tells the truth, she will tell you that her sister will lie and tell you to go the wrong way: to the left.

Getting to Golf: 10 total routes

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