



### Algebraically Speaking

Translate the equation into words:

$$15x + 11 = 56$$

(5.02)



### Mathmania

Suzy has 22 coins in her pocket totaling \$1.80. What combination of coins could she have?

(1.03)



### Investigate Data

Before the first space shots were attempted, the average summer temperature in Miami Beach was 82.5°F.

Dates	Average No. of Space Shots	Ave. July Temp. in Miami
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1960-1964	6	82.6°
1965-1968	10	82.7°
1969-1975	12	82.8°

Citizens of Miami were complaining that the space shots were causing a rise in temperature. What do you think of their conclusion? (4.02)

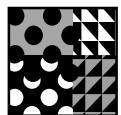


### Solve It!

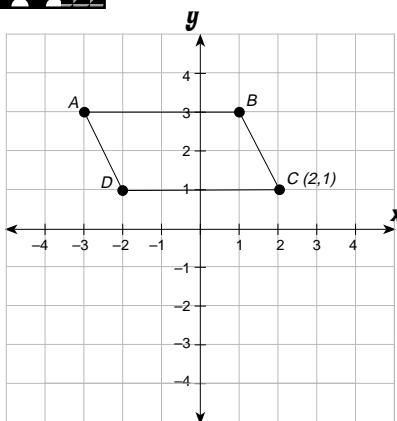
Which is the better buy: a 14 ounce box of popcorn for \$1.98 or a 36 ounce box of popcorn for \$2.59?



(1.03)



### Geometry Rules



Sketch the reflection of parallelogram  $ABCD$  about the  $y$ -axis. Give the ordered pairs of the reflected points.

(Review)



### Write On!

Identify the rule that will give the second number if you know the first. Then fill in the rest of the table according to your rule.

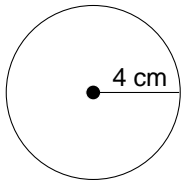
$A$	8	9	$B$	5	49	$C$	2	14
	15	100		15	289		3	19
	30	625		10	144		5	35
	50	2025		8	100		8	74
	25			25			-4	
	$A$	1		$B$	1		$C$	131

(5.03)



# Keeping Skills Sharp

- $\$76 + v + \$24 = \$125$
- $\$9.36 \div 2.3 = A$  (to nearest cent)
- $13\frac{3}{8} - 8\frac{1}{6} =$
- What percent of 50 is 15?
- Write the prime factorization of 1,408.
- Find the GCF of 60 and 132.
- Find the circumference:



- $[3.3 + (4.7 - 2)] \times 12 =$
- Nearest hundred thousand to: 735,054
- Estimate: 26% of 280

Write answers here:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



# Mental Math

Directions to Students:

Write your answers as the questions are called out. Each question will be repeated only once.

- |                |                 |
|----------------|-----------------|
| <b>1</b> _____ | <b>6</b> _____  |
| <b>2</b> _____ | <b>7</b> _____  |
| <b>3</b> _____ | <b>8</b> _____  |
| <b>4</b> _____ | <b>9</b> _____  |
| <b>5</b> _____ | <b>10</b> _____ |

# Answer Key

Grade 5

WEEK  
13

## Algebraically Speaking

eleven more than fifteen times a number is fifty-six

## Math Mania

One solution is 6 dimes, 8 nickels, 3 quarters, and 5 pennies.

## Solve It!

The 14 ounce box costs 14¢ per ounce.

The 36 ounce box costs 7¢ per ounce making it the better buy.

## Write On

A	8	9	B	5	49	C	2	14
	15	100		15	289		3	19
	30	625		10	144		5	35
	50	2025		8	100		8	74
	25	<b>400</b>		25	<b>729</b>		-4	<b>26</b>
	<b>6</b>	1		<b>-1, -3</b>	1		<b>-11, 11</b>	131
	$(A - 5)^2$			$(B + 2)^2$			$C^2 + 10$	

## Investigate Data

answers will vary

## Geometry Rules

A' (3,3); B'(-1,3); C'(-2,1); D'(2,1)

## Keeping Skills Sharp

- \$25
- \$4.07
- $5\frac{5}{24}$
- 30%
- $2^7 \times 11$
- 12
- about 25 cm
- 72
- 700,000
- about 70

## Mental Math

This section provides an opportunity for sharpening students' mental computation.

- $-36 \div -4$
- $-2 \times -3$
- $\frac{n}{6} = 8$ ; solve for  $n$ .
- $(9 \times 2) + 3$
- 2 L = \_\_\_\_ mL
- 10 feet = \_\_\_\_ inches
- $3.14 \times 10^2$
- $\frac{1}{2}(9 \times 8 \times 2)$
- $\frac{10 \times 5 \times 12}{3}$
- $\frac{9}{15} = \frac{?}{5}$

## Mental Math

- 9
- 6
- 48
- 21
- 2000
- 120
- 314
- 72
- 200
- 3



### Algebraically Speaking

Write and solve an equation:

The cost,  $c$ , of a CD is twice the cost of a \$7 tape. What is the price of the CD?

(5.03)



### Mathmania

Your coin collection totals \$24. You have an equal number of nickels, quarters and half-dollars. How many coins do you have?

(1.03)



### Investigate Data

Make a histogram to display the average number of callers per hour to a local talk show for the last thirty days.

12, 15, 23, 30, 24, 17, 14, 25, 17, 21, 20, 17, 16, 11, 21, 31, 30, 14, 26, 12, 14, 16, 18, 22, 23, 15, 25, 21, 31, 34.



(4.01)

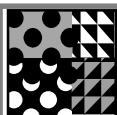


### Solve It!

A soccer ball is usually priced at \$16. It is on sale for 25% off and a 6% sales tax must be added to the sale price. How much will the customer pay for the soccer ball?

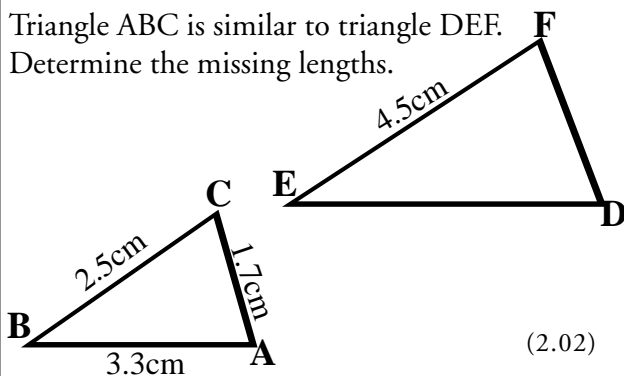


(1.01)



### Geometry Rules

Triangle ABC is similar to triangle DEF. Determine the missing lengths.



(2.02)



### Write On!

Write an explanation of how to change a number in decimal notation to scientific notation.



(Review)



# Keeping Skills Sharp

1.  $z - 4,126 = 20,875$ . Solve for  $z$ .
2.  $\$87.66 \times S = \$3,068.10$ . Solve for  $S$ .
3.  $39\frac{1}{6} - 16\frac{2}{3} =$
4. 153 is 85% of \_\_\_\_\_.
5. Write the prime factorization of 162.
6. Find the LCM of 30 and 16.
7. Find the area of a triangle with base of 3 feet and height of 1 foot 6 inches.
8.  $5.8 + (9 - 4)^2 =$
9. -30.03 is between which two consecutive integers?
10. Estimate: 19% of \$101

Write answers here:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



# Mental Math

Directions to Students:

Write your answers as the questions are called out.  
Each question will be repeated only once.

- |         |          |
|---------|----------|
| 1 _____ | 6 _____  |
| 2 _____ | 7 _____  |
| 3 _____ | 8 _____  |
| 4 _____ | 9 _____  |
| 5 _____ | 10 _____ |

# Answer Key

Grade  $\rightarrow$

WEEK  
1 4

## Algebraically Speaking

$$c = 2 \times \$7$$

$$c = \$14$$

## Math Mania

90 coins

## Solve It!

\$12.72

## Write On

answers will vary

## Geometry Rules

FD = 3.06 cm; DE = 5.94 cm

## Investigate Data

answers will vary

## Keeping Skills Sharp

1. 25,001
2. 35
3.  $22\frac{1}{2}$
4. 180
5.  $2 \times 3^4$
6. 240
7.  $2.25 \text{ ft}^2$
8. 30.8
9. -30 and -31
10. about \$20

## Mental Math

This section provides an opportunity for sharpening students' mental computation.

1.  $9^2$
2.  $-7 + 7$
3.  $8 + (-12)$
4.  $-5 + (-5) - (-2)$
5.  $\frac{1}{3}$  of 90
6. 25% of 32
7.  $B + 13 = -20$ ;  $B = ?$
8.  $L - 18 = -6$ ;  $L = ?$
9.  $2 \times 2 \times 2 = 2^n$
10.  $9 \times P = 6.3$ ;  $P = ?$

## Mental Math

1. 81
2. 0
3. -4
4. -8
5. 30
6. 8
7. -33
8. 12
9. 3
10. .7



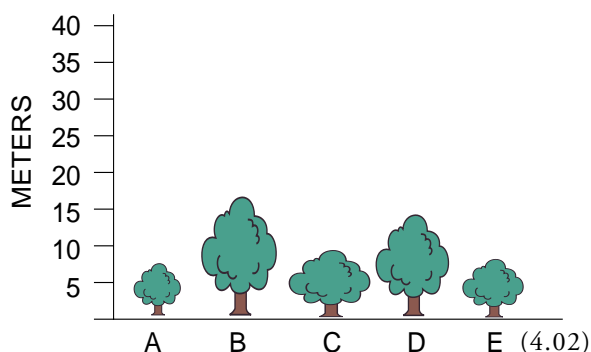
### Algebraically Speaking

A number has been decreased by 12. The result is  $-5$ . Find the original number. (5.03)



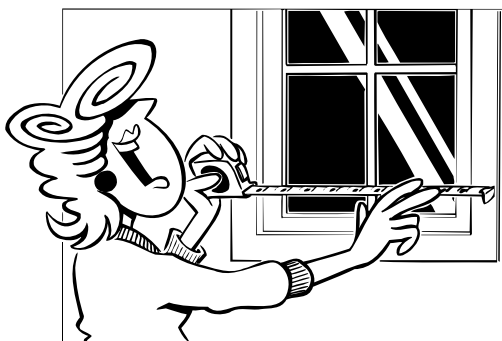
### Investigate Data

What is the median height of the bushes shown on the graph?



### Mathmania

Select a room in your home and make a scale drawing of it. Include items of furniture in the room and give the scale used for the drawing.

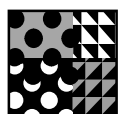


(2.01)



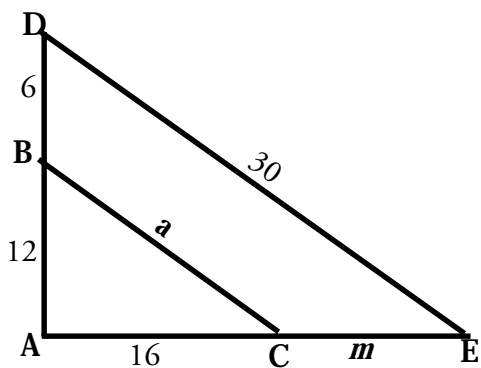
### Solve It!

The mathematician Augustus De Morgan lived in the nineteenth century. He once made the following statement: "I was  $x$  years old in the year  $x^2$ ." In what year was De Morgan born? (5.03)



### Geometry Rules

Triangle BAC is similar to triangle DAE. Determine the value of  $a$  and  $m$ .



(3.03)



### Write On!

Look at the sentence:

3 is to 9 as 5 is to \_\_\_\_\_.

- A. 15    B. 11    C. 25

Explain why a student might choose each of the answers A, B, and C.

(1.01)



# Keeping Skills Sharp

1.  $3,287 \times g = 190,646$ . Solve for  $g$ .

2.  $286.4 - 52.671 = h$ . Solve for  $h$ .

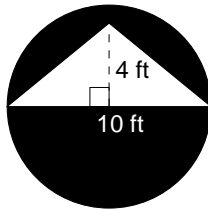
3.  $2\frac{1}{4} \times 3\frac{1}{3} =$

4. Write  $13\frac{1}{3}\%$  as a common fraction.

5. Write the prime factorization of 440.

6. Find the GCF of 40, 48 and 64.

7. Find the area of the shaded region:



8.  $21 - 8 \div (2 + 2)^2 =$

9. Nearest tenth to: 34.6821

10. A rectangular garden has an area of 645 feet<sup>2</sup> and a width of 21.5 feet. How long is the garden?

Write answers here:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



# Mental Math

Directions to Students:

Write your answers as the questions are called out. Each question will be repeated only once.

1 \_\_\_\_\_

6 \_\_\_\_\_

2 \_\_\_\_\_

7 \_\_\_\_\_

3 \_\_\_\_\_

8 \_\_\_\_\_

4 \_\_\_\_\_

9 \_\_\_\_\_

5 \_\_\_\_\_

10 \_\_\_\_\_

# Answer Key

Grade  $\rightarrow$

WEEK  
15

## Algebraically Speaking

$$n - 12 = -5$$
$$n = 7$$

## Geometry Rules

$$m = 8, a = 20$$

## Investigate Data

about 10 m

## Solve It!

He was born in 1806.

## Geometry Rules

18 goldfish

## Write On

For A, the student might use the rule  $n, 3n$ .

For B,  $n, n + 6$ .

For C,  $n, n^2$ .

## Math Mania

answers will vary

## Keeping Skills Sharp

- 58
- 233.729
- $7\frac{1}{2}$
- $\frac{2}{15}$
- $2^3 \times 5 \times 11$
- 8
- about 59 ft<sup>2</sup>
- 20.5
- 34.7
- 30 ft

## Mental Math

This section provides an opportunity for sharpening students' mental computation.

- $-42 \div (-7)$
- 12% of 60
- $10^3 \times 10^4$
- $b - 3.4 = 5.6$
- $\frac{10}{8} = \frac{?}{4}$
- $-8 - (+5)$
- $0.2 \times 1,000$
- $-1 - 8$
- $13.75 \times 100$
- $6 \times k = 4,200$

## Mental Math

- 6
- 7.2
- $10^7$
- 9.0
- 5
- 13
- 200
- 9
- 1,375
- 700