



Algebraically Speaking

Write an algebraic equation for the following and solve it:

The product of five hundredths and a number is 11. (5.02, 5.03)

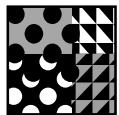


Investigate Data

A math class earned the following set of scores on a test:

4	3 6
5	2 2 6 7 8
6	0 4 5
7	1 2 3 3
8	4 9
9	3 4 5 9

Create a box plot with these scores. (4.01)



Geometry Rules

Mrs. Adams is building a miniature table for a dollhouse. The table will be a scale model of her dining room table. The top of her table measures 36 inches wide and 72 inches long. If the width of the miniature table will be 1.5 inches, what will be its length?

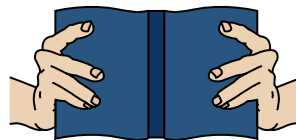


(3.03)



Mathmania

Unit Five of a social studies book starts on page 126 and ends on page 241. How many pages are in the unit?



(1.03)



Solve It!

Ten people met at a party. They all exchanged handshakes. How many handshakes were exchanged?



(Review)



Write On!

Continue the pattern:

2, 5, 11, 23, __, __, __, __, __, __

Explain what the pattern is and write an algebraic expression that can be used to continue it.

(5.03)



Keeping Skills Sharp

Write answers here:

1. $23,584 + J = 31,931$

1. _____

2. $12 \times 5.6 = B$

2. _____

3. $\frac{5}{12} + \frac{2}{3} =$

3. _____

4. What percent of 90 is 36?

4. _____

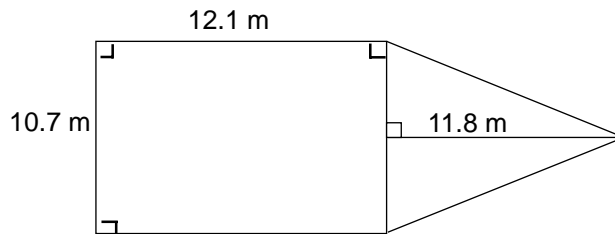
5. Write the prime factorization of 200.

5. _____

6. Find the LCM of 42 and 54.

6. _____

7. Find the area:



7. _____

8. $80 - 3 \times 20 =$

8. _____

9. Solve for n : $\frac{7}{8} = \frac{21}{n}$

9. _____

10. A family makes insurance payments of \$723 twice a year. About how much does the insurance cost per month?

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
10

Algebraically Speaking

$$0.05n = 11; n = 220$$

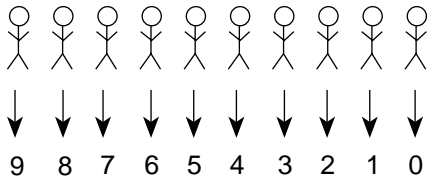
Geometry Rules

3 inches

Math Mania

116 pages

Solve It!



$$9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 + 0$$

45 handshakes were exchanged.

Write On

47, 95, 191, 383, 767, 1535

$2n + 1$ or multiply the previous number by two and add one each time. Students may also find the difference of the terms in the sequence. They may say the difference doubles each time.

Investigate Data

lower quartile 56.5

median 68

upperquartile 86.5

Keeping Skills Sharp

- 8,347
- 67.2
- $1\frac{1}{12}$
- 40%
- $2^3 \times 5^2$
- 378
- 192.6 m^2
- 20
- 24
- \$120

Mental Math

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

- $6 \times 12 \div 2$
- $3^3 - 9$
- 9×10^3
- $(-13)^2$
- $\frac{3}{4} = r \%$
- $56 = 2 \times m \times 14$
- Nearest dollar to: \$14.36
- $\left(\frac{2}{3}\right)^2$
- $23 - 29 + 5$
- 6% of \$20

Mental Math

- 36
- 18
- 9,000
- 169
- 75
- 2
- \$14
- $\frac{4}{9}$
- 1
- \$1.20



Algebraically Speaking

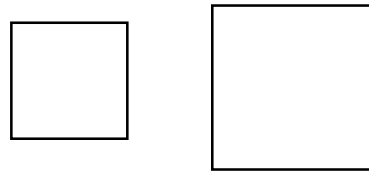
Write and solve an equation:

Nine times a number is 72 thousandths.
 (5.02, 5.03)



Mathmania

The lengths of the sides of an 5 m by 5 m square are increased by 3 m. The area of the square has increased by what percent?



(1.01)



Investigate Data

Four middle schools in Cayuga County submitted the following data:

West MS	mean ht.	162.5 cm	40 students
East MS	mean ht.	155.5 cm	52 students
North MS	mean ht.	170.0 cm	38 students
South MS	mean ht.	168.4 cm	70 students

What is the mean height (to the nearest cm) of all middle school students in Cayuga County?
 (4.05)

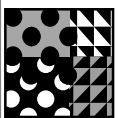


Solve It!

Write the rule used to give the output number for the following:

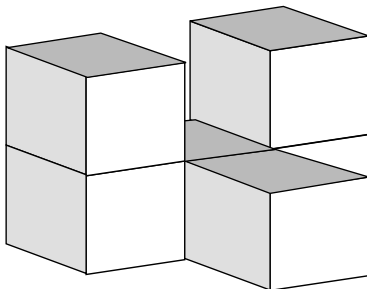
input	output
-2	-11
-1	-8
0	-5
1	-2
2	1

(5.01)



Geometry Rules

Use cubes to build the model pictured. Then draw the front, side, and top view.



Front

(3.01)



Write On!

Write and solve a problem that involves a restaurant bill and a percent.

(1.01)



Keeping Skills Sharp

1. $M \times 2,000 = 88,000$

2. $172 - 45.1457 = T$

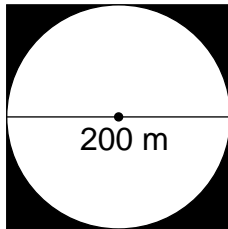
3. $5\frac{2}{3} + 3\frac{3}{4} =$

4. 78 is 65% of _____.

5. Write the prime factorization of 275.

6. Find the GCF of 64 and 88.

7. Find the area of the shaded region:



8. $24 \div [(8 - 5) \times 2] =$

9. Nearest tenth to: 8.295

10. John saves \$108 each month. About how much will he save in a year?

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 1

Algebraically Speaking

$$9n = 0.072$$

$$n = 0.008$$

Write On

answers will vary

Math Mania

156%

Solve It!

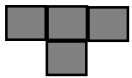
output = five less than three times the input

Investigate Data

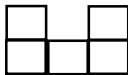
164 cm

Geometry Rules

top



front



left side



Keeping Skills Sharp

- 44
- 126.8543
- $9\frac{5}{12}$
- 120
- $5^2 \times 11$
- 8
- about 8,584 m²
- 4
- 8.3
- \$1,200

Mental Math

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

Prime or composite?

- 2
- 9
- 29
- 51
- 77
- 101
- 231
- 4,924
- 1
- 31

Mental Math

- prime
- composite
- prime
- composite
- composite
- prime
- composite
- composite
- neither
- prime



Algebraically Speaking

Write an equation and solve:

Forty-nine is the square of a number

(5.02, 5.03)



Mathmania

At Carowinds, the cotton candy vendor uses a formula to tell him how much cotton candy he will sell.

c = cotton candy sales

v = number of visitors

$$c = 32 + 0.2v$$

The supply purchasing agent for Carowinds has a formula which tells her how much sugar to buy when she knows how much cotton candy will be sold.

c = cotton candy sales

s = pounds of sugar

$$s = 40 + 0.125c$$

On a day when there will be 8,000 visitors, how much sugar should be purchased?

(1.03, 5.03)



Investigate Data

Shannon's math scores for this marking period are:

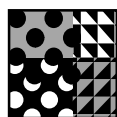
9	23
8	567
7	558
6	49



Her science scores are 65, 95, 94, 74, 81, 82, 68, 76, 82, 76.

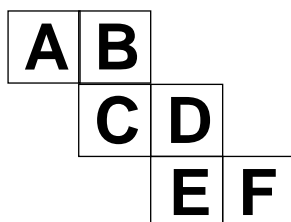
How do her mean and median scores for math and science compare?

(4.05)



Geometry Rules

If you fold this pattern into a cube, which letter is on the side that is opposite **B**?



(3.01)



Solve It!

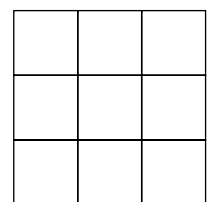
A scale drawing of a building is 20 cm wide and 35 cm long. If the actual building is 90 feet wide, how long is the building?

(2.01)



Write On!

Write the numbers $-5, -4, -3, -2, -1, 0, 1, 2, 3$ in the diagram's squares so that the sum along each row, column, and diagonal is -3 .



(1.02)



Keeping Skills Sharp

Write answers here:

1. $603 \div h = 9$

1. _____

2. $5.4 + 98.26 + 524.387 = D$

2. _____

3. $\frac{5}{6} - \frac{2}{5} =$

3. _____

4. 200% of 120 =

4. _____

5. Write the prime factorization of 490.

5. _____

6. Find the LCM of 28 and 42.

6. _____

7. Find the perimeter of a field with sides of 1.7 km, 2.6 km, 1.8 km, 2.1 km.

7. _____

8. $36 \div [(9 - 5) \times 3] =$

8. _____

9. $256 = \square^2$

9. _____

10. Solve for M : $11 + (27 \div 9)^2 \times M = 38$

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 2

Algebraically Speaking

$$49 = n^2$$

$$n = 7 \text{ or } -7$$

Geometry Rules

E will be opposite B

Math Mania

244 pounds

Solve It!

157.5 feet

Write On

2	-5	0
-3	-1	1
-2	3	-4

Investigate Data

math has mean of 80.4 and median 81.5; science has mean of 79.3 and median 78.5 Her math scores are slightly better than her science scores.

Keeping Skills Sharp

- 67
- 628.047
- $\frac{13}{30}$
- 240
- $2 \times 5 \times 7^2$
- 84
- 8.2 km
- 3
- 16
- 3

Mental Math

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

- $S - (-8) = 12$
- $1,000 \times 4.61$
- $10^7 \div 10^2$
- 253 centimeters = ? meters
- $5 \times (-5)$
- 2×7^2
- Estimate: 53% of 90.
- Nearest ten thousand to: 46,867
- $8^2 \div 2^3$
- $\frac{2}{3} = T\%$

Mental Math

- 4
- 4,610
- 10^5
- 2.53 meters
- 25
- 98
- a little more than 45 (47.7)
- 50,000
- 8
- $66\frac{2}{3}$ or $66.\bar{6}$