



Algebraically Speaking

Write the following algebraic expression in

words: $\frac{r}{3} + 3r = 30$

Solve for r . (5.02, 5.03)

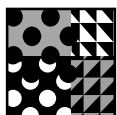


Investigate Data

Ages of 24 Night Class Students

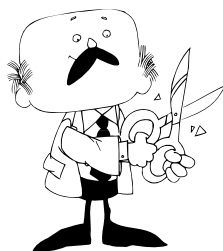
2	3 5 5 8
3	0 1 2 2 4 4 4 4 5 6 6 7 8 8 9
4	0 1 3 3 8

- A Find mean, median and mode of the data set.
- B Is one of the measures from part A a better representation of the data set than the others? Explain your thinking.
- C Construct a box-and-whiskers plot for the data.
- D Give the range, lower extreme, upper extreme, lower quartile and upper quartile.
- E What percent of the data is represented by the box in the box-and-whiskers plot? (4.01, 4.02)



Geometry Rules

Describe the cross-sectional views that can occur when cutting a rectangular prism and a cylinder.



(3.01)



Mathmania

The scale on a map is 1 inch: 30 miles. Westboro, Malden, and Oxbridge are all located on Route 2 and Malden is between Westboro and Oxbridge. On the map, the distance from Westboro to Malden is 2.5 inches and the distance from Westboro to Oxbridge is 5.75 inches. How far, in miles, is Malden from Oxbridge?

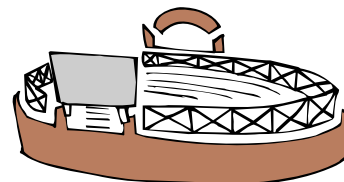


(2.01)



Solve It!

A stadium seats 40,000 people. Tickets were \$12 each and 24,000 tickets were sold. What percent of the stadium was full and how much money was collected?



(1.01)



Write On!

Mrs. Math asked her student, Molly, to tell which is greater:

80% or $\frac{4}{5}$ or 0.8

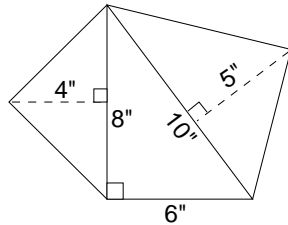
Molly responded that they are all equivalent. The teacher tells Molly to explain how this can be true. Write what Molly said to the teacher to explain her answer.

(Review)



Keeping Skills Sharp

- Solve for w : $15,125 \div w = 605$
- Solve for d : $5.2 + 6.7 + d = 20.7$
- Solve for m : $21 \div 9\frac{1}{3} = m$
- $6\frac{1}{4}\%$ of \$80 =
- Write the prime factorization of 600.
- Find the LCM of 11, 44 and 132.
- Find the area:



- $5 \times [4 + (6 - 3)^2] =$
- $4^2 + 1 \times (6 - 4) =$
- Choose the best estimate: 0.73×6.21
 - less than 4.2
 - greater than 4.2
 - greater than 3.6
 - less than 3.6

Write answers here:

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____



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
16

Algebraically Speaking

The sum of one-third of a number, r , and three times that number is thirty. $r = 9$

Math Mania

97.5 miles

Investigate Data

A. mean: 34.8; median: 34.5; mode: 34

B. answers will vary

C. answers will vary

D. range: 25; lower extreme: 23; upper extreme: 48;
lower quartile: 31.5; upper quartile: 38.5

E. about 50%

Solve It!

60%; \$288,000

Write On

answers will vary

Geometry Rules

answers will vary

Keeping Skills Sharp

- 25
- 8.8
- $2\frac{1}{4}$
- \$5
- $2^3 \times 3 \times 5^2$
- 132
- 65 in²
- 65
- 18
- b

Mental Math

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

- -8×2
- $\sqrt{144}$
- $(4^2 - 1) \times 2 - 4$
- 4.302×100
- 1.72×10^4
- Nearest dollar to: \$29.84
- $(26 \times 3) + (26 \times 7)$
- 8.41×10^5
- 7% of \$900
- $8(5 + 1)$

Mental Math

- 16
- 12
- 26
- 430.2
- 17,200
- \$30
- 260
- 841,000
- 63
- 48



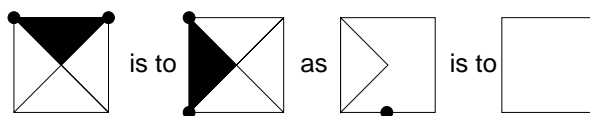
Algebraically Speaking

Translate into an algebraic inequality and solve:
A number divided by five is greater than negative six.

(5.02, 5.03)



Mathmania



is to as is to

(Review)



Investigate Data

Hotel Rates

Cost per Night	\$56		
	\$55		
	\$54		
	\$53		
	\$52		
	\$51		
	\$50		
		Hotel 6	

Explain why this graph is misleading.

(4.01)



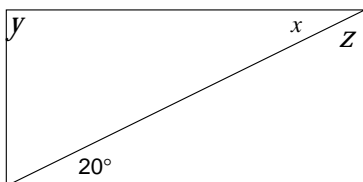
Solve It!

A man's childhood lasted for $\frac{1}{6}$ of his life, he played soccer for the next $\frac{1}{12}$ of his life, and he married after $\frac{1}{7}$ more of his life. A daughter was born 5 years after his marriage, and the daughter lived $\frac{1}{2}$ as many years as her father did. If the man died four years after his daughter did, how old was the man when he died?

(5.03)



Geometry Rules



In this rectangle, what is the measure of angle x ? ... angle y ? ... angle z ?

(Review)



Write On!

Write a problem to fit this equation:

$$2K + 5 = 29$$

(5.03)



Keeping Skills Sharp

1. $7,013 - s = 716$. Solve for s .

Write answers here:

2. $4.7 \times 9.8 =$

1. _____

3. $8\frac{4}{5} \div 2\frac{3}{4} =$

2. _____

4. 110% of 160 =

3. _____

5. Write the prime factorization of 188.

4. _____

6. Find the LCM and GCF for 16 and 24.

5. _____

7. The area of a rectangle is 120 cm^2 . The width is 30 cm. Find the perimeter.

6. _____

8. $4 \times [6 + (7 - 4)^2] =$

7. _____

9. $20 - (12 - 8 \div 2) =$

8. _____

10. Choose the best estimate: 0.343×0.66

a. less than 0.21

b. between 0.21 and 1.2

9. _____

c. between 1.2 and .21

d. greater than 2.1

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
17

Algebraically Speaking

$$\frac{n}{5} > -6$$

$$n > -30$$

Investigate Data

The scale on the vertical axis is not constant. This makes a rate of \$55 look three times as great as the rate of \$51.

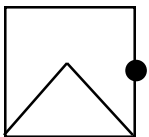
Solve It!

84 years old

Geometry Rules

$$x = 20^\circ, y = 90^\circ, z = 70^\circ$$

Math Mania



Write On

Answers will vary.
Ex. Mary is 5 years more than twice John's age.
If Mary is 29, how old is John?

Keeping Skills Sharp

- 6,297
- 46.06
- $3\frac{1}{5}$
- 176
- $2^2 \times 47$
- LCM = 48; GCF = 8
- 68 cm
- 60
- 12
- b

Mental Math

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

- Nearest whole number to 149.265
- $2^2 - 1$
- $4^2 \div 8$
- $\sqrt{225}$
- 0.003×0.7
- $7.5 \div 10^4$
- $8 \div 0.5$
- $\left(\frac{1}{4}\right)^2$
- $6.3 \div 0.9$
- 2.601×10^3

Mental Math

- 149
- 3
- 2
- 15
- 0.0021
- 0.00075
- 16
- $\frac{1}{16}$
- 7
- 2,601



Algebraically Speaking

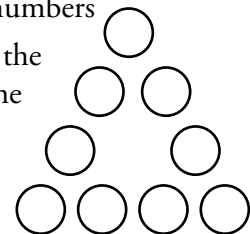
Write an algebraic expression for the quotient of six times a number, n , and five. Evaluate the expression for $n = 3\frac{1}{3}$ (5.03)



Mathmania

Place the whole numbers

1 through 9 in the circles in the triangle so that the sum of the numbers on each side is 17.



(1.03)



Investigate Data

Make a histogram to display the commissions for Mercury Telemarketing's sales staff this week.

\$350, \$225, \$198, \$238, \$315, \$450, \$380, \$410, \$320, \$275, \$330, \$198, \$210, \$340, \$418, \$405, \$227, \$205, \$430, \$312, \$409, \$282, \$190, \$363, \$402, \$227, \$180, \$265, \$312, \$220.

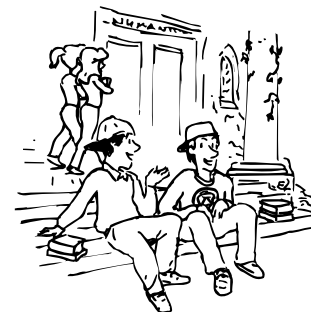


(4.01)

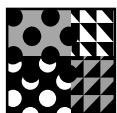


Solve It!

Mr. Brown's class sold twice as many tickets as Mrs. Allen's class. Mrs. White's class sold three times as many tickets as Mr. Brown's class. A total of 54 tickets were sold. How many tickets did each class sell?



(5.03)



Geometry Rules

A. Name at least two different polyhedrons for which this is a face.



B. Name at least two different polyhedrons for which this is a face.



C. Could the same polyhedron answer both A and B?

(3.01)



Write On!

Design a bumper sticker or license plate that relates to a mathematical concept you have studied. Explain in writing what your phrase or logo means.

(Review)



Keeping Skills Sharp

1. $4 \overline{)412}$
2. $0.18 - b = 0.179$
3. $6.4 \times 0.03 = f$
4. What is 110% of 50?
5. Write the prime factorization of 48 in exponential form.
6. Find the GCF and the LCM of 10 and 18.
7. A circle has a radius of 18 cm. What is its approximate area?
8. Simplify: $(4 + 2) \times (-10)^2 + (-12)$
9. Nearest ten thousand to 32,567
10. To the nearest whole number, what percent of 175 is 89?

Write answers here:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



Mental Math

Directions to Students:

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- | | |
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Answer Key

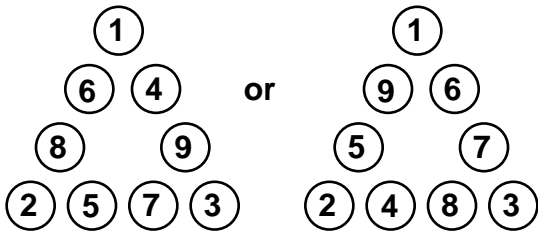
Grade \rightarrow

WEEK
18

Algebraically Speaking

$$6n \div 5 \text{ or } \frac{6n}{5}; 4$$

Math Mania



Solve It!

Mrs. Allen = 6

Mr. Brown = 12

Mrs. White = 36

Investigate Data

Answers will vary.

Write On

Answers will vary.

Geometry Rules

A. cube, rectangular prism,
pyramid, triangular prism

B. pyramid, triangular prism

C. yes!

Keeping Skills Sharp

- 103
- 0.001
- 0.192
- 55
- $2^4 \times 3$
- GCF = 2
LCM = 90
- about 1,018 cm^2
- 588
- 30,000
- 51%

Mental Math

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

- $-25 \div 5 + (20 \times 2)$
- $-90 \div 3 \times 6 + 2.7$
- $\frac{7}{8} = \frac{?}{16}$
- _____ g = 5 kg
- 100×0.4
- $35 \div (-5) \times (-3)$
- 600 mm = _____ m
- $24 \div 0.25$
- 500×20
- $\sqrt{100}$

Mental Math

- 35
- 177.3
- 14
- 5,000
- 40
- 21
- 0.6
- 96
- 10,000
- 10