



(5.03)

Algebraically Speaking

$$\triangle + \square + \text{cylinder} = 21 \text{ lb}$$

$$\triangle + \text{cylinder} = 12 \text{ lb}$$

$$\triangle + \square = 14 \text{ lb}$$

$$\triangle = ? \quad \text{cylinder} = ?$$

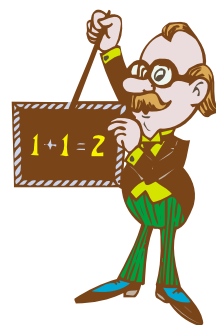
$$\square = ?$$

Explain how you solved the problem.



Mathmania

Euclid, a Greek mathematician proved that there is no largest prime. Suppose you are Euclid. What kinds of things might you do to prove there is no largest prime? Explain your approach and the things you might try.



(Review)



Investigate Data

John's test grades were: 76, 82, 95, 82, 78, 96, 91. His teacher will allow John to choose the measure of central tendency to be used for his test grades? Which measure should John choose? Why?

(4.02)

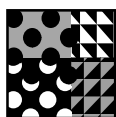


Solve It!

Point of View

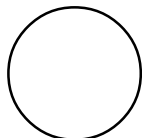
Bob and his dad visited the hardware store on Saturday. They observed the following transactions: Mr. Harris bought 4 for \$0.50, Mrs. Clarke bought 21 for \$1.00, Mr. Montaro bought 1,134 for \$2.00 and Ms. Park bought 450 for \$1.50. What were they buying?

(1.03)



Geometry Rules

Name at least two 3-dimensional figures for which this is a base.



(Review)



Write On!

Translate into an equation and solve:
 Eight more than a number is twenty-seven.

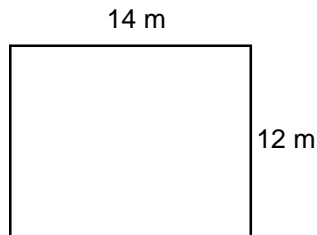
(5.03)



Keeping Skills Sharp

Write answers here:

- $8,725 + w = 10,619$
- $24.96 \div 80 =$
- $15,234 - 7,500 =$
- $16 + h + 43 = 81$
- Write the prime factorization of 56.
- Find the GCF of 25 and 35.
- Find the area of the following rectangle:



- Simplify: $200 + 25 \times 30 - 20$
- Nearest hundred: 249
- Estimate: $2,347 + 6,782 + 413$

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



Mental Math

Directions to Students:

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

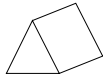
- | | |
|----------------|-----------------|
| 1 _____ | 6 _____ |
| 2 _____ | 7 _____ |
| 3 _____ | 8 _____ |
| 4 _____ | 9 _____ |
| 5 _____ | 10 _____ |


Answer Key

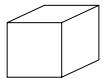
Grade \rightarrow

WEEK
1

Algebraically Speaking

 = 5 lb.

 = 7 lb.

 = 9 lb.

Write On

$$n + 8 = 27$$

$$n = 19$$

Math Mania

Answers will vary

Solve It

They were purchasing house numbers at 50¢ per numeral.

Investigate Data

mean = 85.7; median = 82

reasons will vary

Keeping Skills Sharp

- 1,894
- 0.312
- 7,734
- 22
- $2^3 \times 7$
- 5
- $A = 168 \text{ m}^2$
- 930
- 200
- 9,000

Mental Math

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

- $\frac{8}{9} - \frac{1}{9}$
- $\frac{7}{12} + \frac{1}{6}$
- 3 yards = ___ feet
- 2 years = ___ days
- 5 hours = ___ minutes
- Rename as a fraction and decimal: 75%
- $132 \div 6$
- $\frac{1}{6} + \frac{3}{6}$
- $56 - 7$
- $3,290 + 90$

Mental Math Answers

- $\frac{7}{9}$
- $\frac{3}{4}$
- 9
- 730
- 300
- $\frac{3}{4}$; 0.75
- 22
- $\frac{2}{3}$ or $\frac{4}{6}$
- 49
- 3,380



Algebraically Speaking

If represents +1 and represents -2,

then what would the following collection of buttons represent?



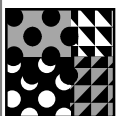
(1.02)



Investigate Data

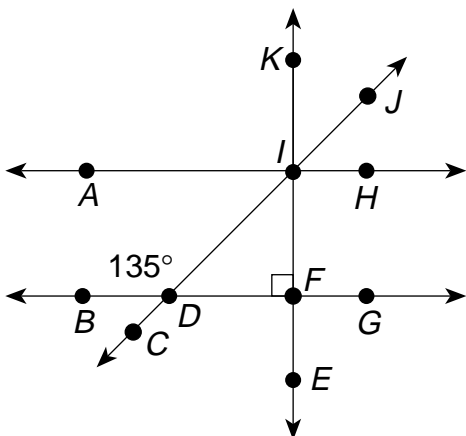
For the set $\{3, 4, 5, 8, x\}$ the mean, median, and mode all have the same value. What is the value of x ?

(4.02)



Geometry Rules

Find the measure of angle DIF .



(Review)



Mathmania

If 100% of is

and 50% of

is

then what is 25% of ?

(1.01)



Solve It!

A ball is dropped from a height of 48 feet. Each time the ball bounces, it travels back up half the distance from which it fell. How many feet has the ball traveled when it hits the ground for the fifth time?

(1.03)



Write On!

Write an equation and solve:

A number increased by 1.6 is nine.

(5.03)



Keeping Skills Sharp

Write answers here:

1. $1,007 - d = 248$

1. _____

2. $4.04 \times 0.89 =$

2. _____

3. $2\frac{3}{4} + 3\frac{1}{8} =$

3. _____

4. 45% of 72 =

4. _____

5. Write the prime factorization of 144.

5. _____

6. Find the Least Common Multiple of 12 and 16.

6. _____

7. A rectangular fence is 27.8 meters by 34.2 meters. What is its perimeter?

7. _____

8. $3 + 2^3 - 5 =$

8. _____

9. Nearest hundred to 2,361 .

9. _____

10. Estimate:

$46.8 - 32.97$

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
2

Math Mania



Geometry Rules

45°

Solve It

$$\begin{array}{r} 48 \\ 24 \\ 24 \\ 12 \\ 12 \\ 6 \\ 6 \\ 3 \\ + 3 \\ \hline 138 \text{ ft.} \end{array}$$

Write On

$$n + 1.6 = 9$$

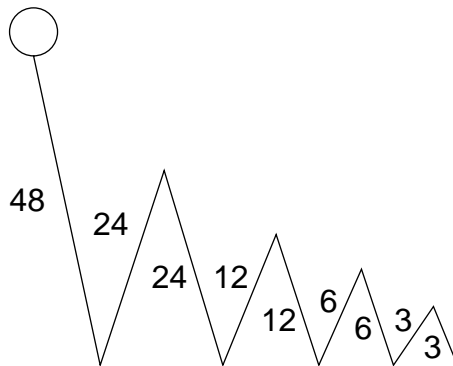
$$n = 7.4$$

Algebraically Speaking

-1

Investigate Data

$$x = 5$$



Keeping Skills Sharp

- 759
- 3.5956
- $5\frac{7}{8}$
- 32.4
- $2^4 \times 3^2$
- 48
- 124 m
- 6
- 2,400
- 20 or 14

Mental Math

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

- $35,000 + 6,000$
- $873 - 752$
- 17×1000
- 40×90
- $312 + 673$
- $2\frac{7}{8} - 1\frac{1}{2}$
- $66 - 27$
- $10,000 \times 12$
- $4\frac{3}{4} + 5\frac{1}{8}$
- 4×800

Mental Math Answers

- 41,000
- 121
- 17,000
- 3,600
- 985
- $1\frac{3}{8}$
- 39
- 120,000
- $9\frac{7}{8}$
- 3,200



Algebraically Speaking

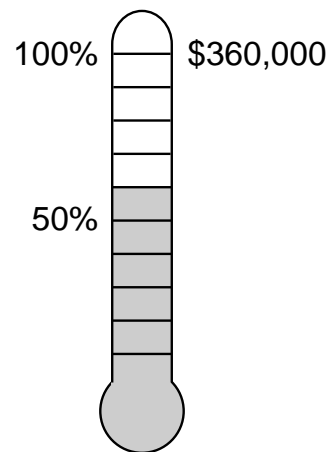
A basket of 25 peaches weighs 232 ounces. After 10 peaches are removed the basket of peaches weighs nine and a half pounds. Write an algebraic expression to model this problem. How much does the basket weigh?

(1.03)



Mathmania

The following chart shows the fund raising goal for a community. About how much money have they collected so far?



(Review)



Investigate Data

In Pollville, records are kept on the previous mayors. Here are the ages of the last six mayors when they were voted into office:

45 88 37 42 41 44

Compare the mean and median. Which is a more representative measure of the average age? Why?

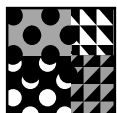
(4.02)



Solve It!

What is the sum of the first 500 counting numbers? i.e., The sum of $1 + 2 + 3 + 4 + \dots + 496 + 497 + 498 + 499 + 500$? How about only the odds: $1 + 3 + 5 + 7 + \dots + 493 + 495 + 497 + 499$?

(Review)



Geometry Rules

A triangle is graphed on a coordinate grid on which each unit is a centimeter. It has vertices at points $(2, -8)$, $(2, 5)$, and $(-4, 5)$. Find its area.

(Review)



Write On!

Translate into an equation and solve.

A number added to eight equals five.

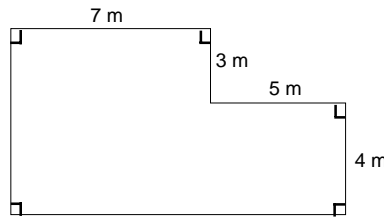
(5.03)



Keeping Skills Sharp

Write answers here:

- $18 \times k = 90$
- $w - 0.79 = 7.47$
- $13\frac{3}{8} - 2\frac{5}{8} =$
- Rename as a decimal and percent: $\frac{3}{8}$
- Write the prime factorization of 375.
- Find the greatest common factor of 24 and 36.
- Find the area.



- $24 \div [(7 - 3) \times 2]$
- Nearest dollar to \$624.52
- Add: $\$563.48 + \$4.72 + \$327$

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



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
3

Algebraically Speaking

equations will vary, basket weighs 2 lbs.

Write On

$$8 + a = 5$$

$$a = -3$$

Solve It

125,250; 62,500

Investigate Data

mean = 49.5

median = 43 more representative

Geometry Rules

39 cm²

Math Mania

\$216,000

Keeping Skills Sharp

- 5
- 8.26
- $10\frac{3}{4}$
- 0.375, $37\frac{1}{2}\%$
- 3×5^3
- 12
- $A = 69 \text{ m}^2$
- 3
- \$625
- \$895.20

Mental Math

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

- 70×7
- 50×40
- $\frac{4}{9} - \frac{4}{9}$
- $12\frac{9}{10} - 6\frac{4}{10}$
- 30 yards = ____ feet
- 60 inches = ____ feet
- $\frac{1}{4} + \frac{1}{8} + \frac{1}{2} =$
- $\frac{7}{4} \times 2$
- $2\frac{4}{7} - \frac{6}{7}$
- If you start your homework at 6:45 p.m. and finish at 9:58 p.m., how much time did you spend on homework?

Mental Math Answers

- 490
- 2,000
- 0
- $6\frac{1}{2}$ or $6\frac{5}{10}$
- 90
- 5
- $\frac{7}{8}$
- $\frac{7}{2}$ or $3\frac{1}{2}$
- $1\frac{5}{7}$ or $\frac{12}{7}$
- 3 hours and 13 minutes