



Algebraically Speaking

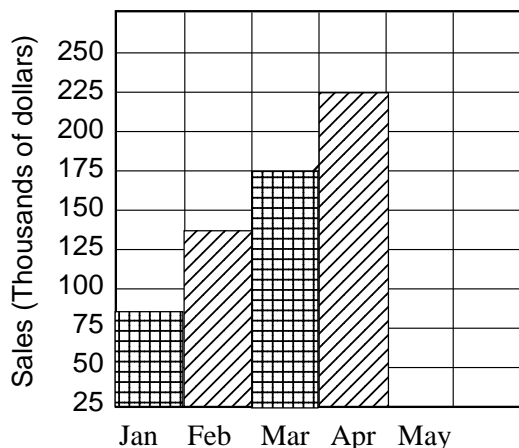
Two numbers are in the ratio 5 : 3. If the smaller number is increased by 11, the ratio becomes 4 : 3. What are the numbers? (1.01)



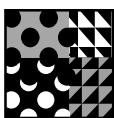
Investigate Data

What was the increase in sales from February to March?

Sales at Sprocket Industries



(Review)



Geometry Rules

Use your ruler and protractor to draw two similar triangles such that the ratio of the corresponding sides is 2 : 3. Label all sides and angles.



(3.03)



Mathmania

The Wiley family went to Pizza Place for dinner. They bought two pizzas for \$12.95 (tax included) each. Mr. Wiley wanted to add a 20% tip to the bill. What was the total cost of dinner?



(1.01)



Solve It!

To make batik scarves, Anna paints hot melted wax on white fabric. The directions Anna follows state that the wax she uses must be at least 170°F. Anna uses a thermometer marked in degrees Celsius. At what reading on her thermometer should the temperature of the wax be?

(5.04)



Write On!

Is it possible for the mean and median of a set of data to be the same number? Explain.



(4.02)



Keeping Skills Sharp

Write answers here:

1. $25 \div (5 + 20) \times 2 =$ 1. _____
2. $13.1 + 43.5 =$ 2. _____
3. $7.5 \times 10^5 =$ 3. _____
4. 12% of 59.7 is what number? 4. _____
5. Give the prime factorization of 28. 5. _____
6. Find the GCF of 30 and 90. 6. _____
7. What is the perimeter of a 4 cm \times 2 cm rectangle? 7. _____
8. Simplify: $6^2 - 4 \times 3 + 2$ 8. _____
9. The nearest hundred to 83,752,245 is? 9. _____
10. Estimate: 62% of 151. 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
28

Algebraically Speaking

-55 and -33

Geometry Rules

Answers will vary.

Mathmania

\$31.08

Solve It!

Students will need to find the formula to convert Fahrenheit to Celsius. About 77° ($76.666\dots^\circ$)

Write On!

Yes, answers will vary.

Investigate Data

\$37,500.00

Keeping Skills Sharp

- 2
- 56.6
- 750,000
- 7.164
- $2^2 \times 7$
- 30
- 12 cm
- 26
- 83,752,200
- 90

Mental Math

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

- $5 \times 14 \div 5$
- $381 + 562$
- $\frac{9}{11} - \frac{6}{11}$
- $24 \times (-15) \times 0$
- $\left(\frac{2}{3}\right)^3$
- 514×10
- $63 \text{ cm} = \underline{\hspace{1cm}} \text{ m}$
- $75 - (3 \times 25)$
- $560 \div ? = 8$
- $\left(\frac{1}{2}\right)^2$

Mental Math

- 14
- 943
- $\frac{3}{11}$
- 0
- $\frac{8}{27}$
- 5,140
- 0.63
- 0
- 70
- $\frac{1}{4}$



Algebraically Speaking

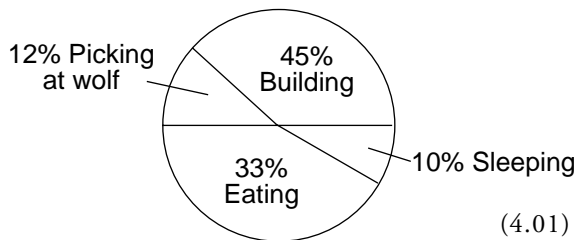
If $\# = * + 7$, then $4\# + 6 + 3* =$ _____ (5.02)



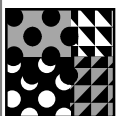
Investigate Data

The chart shows the percentage of the pigs' time spent doing certain activities within a 24 hour period. How much time did they spend building?

Three Little Pigs' Adventures

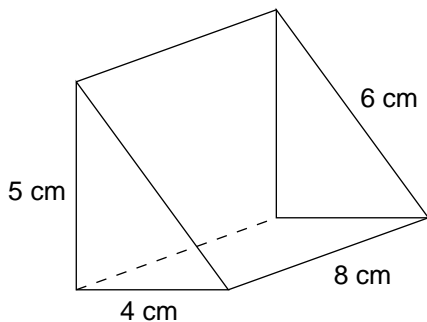


(4.01)



Measurement Rules

What is the surface area of this triangular prism?



(2.02)



Mathmania

Complete the magic square by writing each sum in the corresponding square. The sums of the rows, columns, and diagonals are the same.

- a. $-12 + 12$ f. $-11 + 8$
- b. $9 + (-10)$ g. $9 + (-11)$
- c. $17 + (-13)$ h. $-7 + 10$
- d. $-12 + 17$ i. $16 + (-14)$
- e. $21 + (-20)$

a	b	c
d	e	f
g	h	i

(1.02)



Solve It!

Jake has five t-shirts, three pairs of pants and four pairs of shorts. How many different 2-piece outfits can he put together? How many shirt-pants combinations? How many shirt-short combinations?

(Review)



Write On!

Explain the difference between -6^2 and $(-6)^2$.



(1.02)



Keeping Skills Sharp

Write answers here:

1. $31 \times 14 \times 25 =$

2. $0.38 \times 84.1 =$

3. $\frac{7}{8} \div \frac{1}{4} =$

4. Solve for n : $\frac{17}{3} = \frac{51}{n}$

5. Give the prime factorization of 90.

6. Find the GCF of 32 and 48.

7. Find the area of a circle whose diameter is 42 cm.

8. Simplify: $291 - (36 - 87)7$

9. The nearest tenth to 0.898 is?

10. Estimate: $29 \overline{)268}$

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
29

Algebraically Speaking

$$4(* + 7) + 6 + 3*$$

$$4* + 28 + 6 + 3*$$

$$7* + 34$$

Measurement Rules

$$140 \text{ cm}^2$$

Investigate Data

10 hours 48 minutes

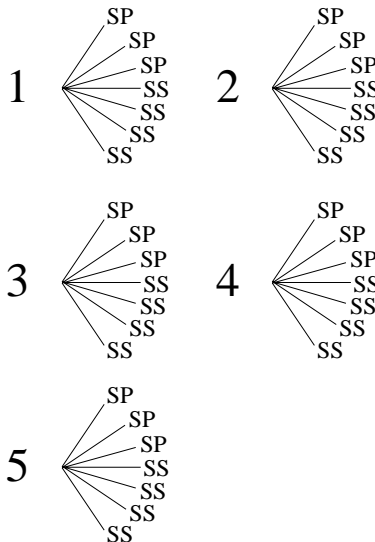
Mathmania

- a. 0 d. 5 g. -2
b. -1 e. 1 h. 3
c. 4 f. -3 i. 2

Write On!

Explanations will vary.
 -6^2 (the opposite of 6^2) = -36
 $(-6)^2$ (the square of -6) = 36

Solve It!



35 outfits; 15 shirt-pants combinations + 20 shirt-shorts combinations.

Keeping Skills Sharp

- 10,850
- 31.958
- $3\frac{1}{2}$
- 9
- $2 \times 3^2 \times 5$
- 16
- approximately 1,385.4 cm^2
- 648
- 0.9
- 9

Mental Math

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

- What percent of 15 is 6?
- 2 yd. 1 ft. = _____ yd.
- $12^2 - 2^2$
- $1.5(1.5 + 1.5)$
- 3.21×10^4
- 30% of 120
- $125 \div 5 \times (-3) + 15$
- $0.125 = ? \%$
- $2\frac{1}{2} + 3.25$
- $12.5 = ? \%$

Mental Math

- 40%
- $2\frac{1}{3}$
- 140
- 4.5
- 32,100
- 36
- 60
- 12.5
- 5.75 or $5\frac{3}{4}$
- 1,250



Algebraically Speaking

Complete the magic square by computing the y value of the relation for each x value given below. The rule is each y value is one less than three times each x value.

- a. 1
- b. 0
- c. 5
- d. 6
- e. 2
- f. -2
- g. -1
- h. 4
- i. 3

a	b	c
d	e	f
g	h	i

(1.02, 5.03)



Mathmania

A rectangular garden has an area of 120 square meters. What are the possibilities for length and width if both are whole numbers? Which pair gives the smallest perimeter?



(Review)



Investigate Data

Colors of Pieces of Candy in a Bag

Colors	Frequency
red	
blue	
green	I
purple	+++
yellow	+++

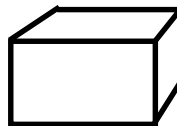
Using the information in the chart, create a circle graph.

(4.01)

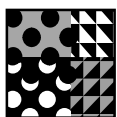


Solve It!

The volume of a rectangular prism is 36 m^3 . The surface area is 72 m^2 . What are the dimensions of the prism?



(1.03, 2.02)



Measurement Rules

June's model of a car was built with a scale of 1:15. If the length of the model is 8.5 inches, what is the actual length of the car?



(1.01)



Write On!

Without actually calculating the sum, explain how you can decide whether the sum of two integers is positive. How do you decide whether the sum is negative? How do you know when the sum will be zero?

(1.02)



Keeping Skills Sharp

Write answers here:

1. $1,288 \div 161 =$ 1. _____
2. $1.82 \div 0.28 =$ 2. _____
3. Determine the missing number: 4, 6, 9, 13.5, ____ 3. _____
4. 125% of 104 is what number? 4. _____
5. What is the prime factorization of 50? 5. _____
6. Find the LCM of 45 and 50. 6. _____
7. Solve for n : $\frac{40}{160} = \frac{5}{n}$ 7. _____
8. Simplify: $98 - (-17) + 37 - 176$ 8. _____
9. The nearest hundredth to 1.099 is? 9. _____
10. Estimate: $6,500 \div 48$ 10. _____



Mental Math

Directions to Students:

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

- | | |
|----------------|-----------------|
| 1 _____ | 6 _____ |
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Answer Key

Grade \rightarrow

WEEK
30

Algebraically Speaking

- a. 2 d. 17 g. -4
b. -1 e. 5 h. 11
c. 14 f. -7 i. 8

Measurement Rules

127.5 inches or 12 feet 7.5 inches

Mathmania

1m \times 120m, 2m \times 60m, 3m \times 40m,
4m \times 30m, 5m \times 24m, 6m \times 20m,
8m \times 15m, 10m \times 12m.

10m \times 12m gives the smallest perimeter.

Solve It!

$$6 \text{ m} \times 2 \text{ m} \times 3 \text{ m}$$

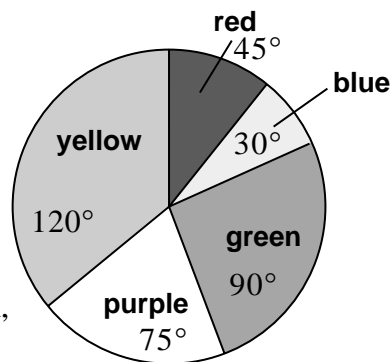
Write On!

If the number with the greatest absolute value is positive, the sum is positive.

If the number with the greatest absolute value is negative, the sum is negative.

If the numbers have the same absolute value but one is positive and the other is negative, the sum is zero.

Investigate Data



Keeping Skills Sharp

- 8
- 6.5
- 20.25
- 130
- 2×5^2
- 450
- 20
- 24
- 1.10
- 130

Mental Math

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

- 2 lb. 2 oz. = ____ lb.
- 7^0
- $56.49 \div 7$
- 200% of 45
- $30 \times ? = 270$
- $\frac{1}{2} \times 3 \times 6$
- $\left(-\frac{1}{5}\right)^3$
- $-14 + 21$
- Find the area of a triangle with base 9mm and height 16 mm.
- $2(-17 + 4)$

Mental Math

- $2\frac{1}{8}$ or 2.125
- 1
- 8.07
- 90
- 9
- 9
- $-\frac{1}{125}$
- 7
- 72 mm^2
- 26