



### Algebraically Speaking

Translate into an equation and solve:

Nine less than a number is three.

(5.03)



### Mathmania

Kevin saves  $\frac{3}{4}$  of the money he earns mowing yards each week. He earned \$12.25 last week and \$17.00 this week. How much will Kevin save in these two weeks?



(1.02)



### Investigate Data

On five tests (on which scores could range anywhere from 0 to 100, inclusive) Johnny had an average of exactly 88. Find the lowest score Johnny could have received on one test.

(4.02)

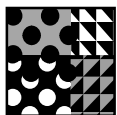


### Solve It!

*Become the director and choose your cast to act this out:*

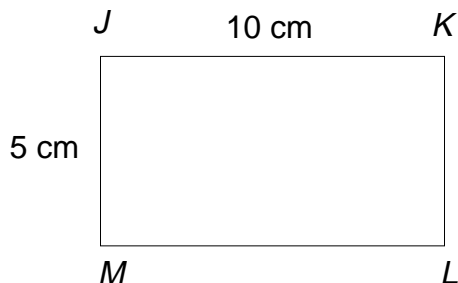
Joey's little sister, Ella, must take four steps for every three steps Joey takes. Suppose one of Joey's steps covers 32 centimeters. How far will Ella travel when she has taken 12 steps?

(1.03)



### Geometry Rules

Find the perimeter and area of rectangle  $JKLM$ . What would be the area and perimeter if the length of  $JKLM$  was doubled?



(Review)



### Write On!

Sarah said: "I multiplied two numbers and the product is smaller than one of the factors."

Write a short paragraph explaining how this could happen. What two numbers could Sarah have multiplied? How can the product of two numbers be smaller than one of the original numbers?

(1.02)



# Keeping Skills Sharp

Write answers here:

1.  $2007 \div j = 223$

2.  $22.57 + 7.4 =$

3.  $9\frac{5}{6} - 4\frac{1}{3} =$

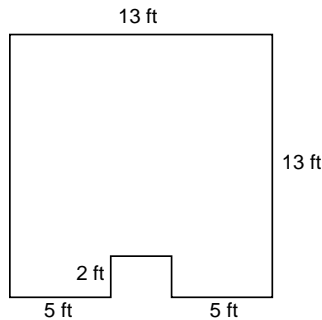
4.  $37\% \text{ of } 400 =$

5. Write the prime factorization of 153.

6. Find the least common multiple of 8 and 6.

7. Find the perimeter.

*(Right angles at all vertices)*



8.  $2r + 12 = 39$

9. Nearest hundredth.  
0.0341 ?

10. Estimate:  $43.07 - 3.912$

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  
4

## Algebraically Speaking

$$n - 9 = 3$$

$$n = 12$$

## Math Mania

$$\frac{3}{4} \cdot \$12.25 = \$9.1875 = \$9.19$$

$$\frac{3}{4} \cdot \$17.00 = \$17.00 = \$12.75$$

Kevin will save \$21.94 in these two weeks.

## Solve It

### Joey

$$1 \text{ step} = 32 \text{ cm}$$

$$3 \text{ steps} = 96 \text{ cm}$$

### Ella

$$4 \text{ steps} = 96 \text{ cm}$$

$$12 \text{ steps} = 4 \text{ steps} \times 3$$

$$= 96 \text{ cm} \times 3 = 288 \text{ cm}$$

## Geometry Rules

$$P = 30 \text{ cm}; A = 50 \text{ cm}^2$$

If length is doubled,

$$P = 50 \text{ cm}; A = 100 \text{ cm}^2$$

## Investigate Data

40

## Write On

Students' answers could include finding a fraction of a number, or multiplying decimal numbers.

## Keeping Skills Sharp

- 9
- 29.97
- $5\frac{1}{2}$
- 148
- $3^2 \times 17$
- 24
- 56 feet
- 11
- 0.03
- 39

## Mental Math

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

- If Jim awakes at 6:30 a.m. and leaves for school an hour and ten minutes later, what time does he leave for school?

$$2. \quad \frac{1}{2} \times \frac{4}{7}$$

$$3. \quad 4 \times k = 20$$

$$4. \quad 4 - 1\frac{7}{8}$$

$$5. \quad 36 \times 10$$

$$6. \quad \frac{3}{10} + ? = \frac{8}{10}$$

$$7. \quad 2\frac{1}{2} \text{ gallons} = \underline{\hspace{1cm}} \text{ quarts}$$

$$8. \quad 12,000 \text{ pounds} = \underline{\hspace{1cm}} \text{ tons} \quad 9. \quad h \div 5 = 7$$

$$10. \quad \frac{1}{5} + \frac{11}{15}$$

## Mental Math Answers

- 7:40 a.m.
- $\frac{2}{7}$  or  $\frac{4}{14}$
- 5
- $2\frac{1}{8}$
- 360
- $\frac{5}{10}$  or  $\frac{1}{2}$
- 10
- 6
- 35
- $\frac{14}{15}$



### Algebraically Speaking

Write an equation that represents this problem and solve it.

The \$37 sale price of a sweater is \$16 less than the original price. Find the original price. (5.03)



### Mathmania

I spent \$27 (plus tax) to purchase 9 items for school. I bought some folders at \$2 each, some drawing pens at \$3 each, and some large looseleaf notebooks at \$5 each. How many folders, pens and notebooks did I buy? (1.03)



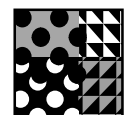
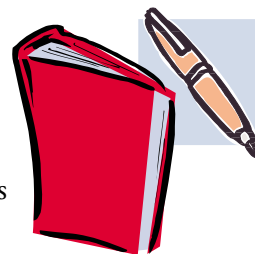
### Investigate Data

A school secretary has data on the people absent from school for ten days. The absences were: 2, 5, 7, 3, 14, 11, 8, 10, 17, 6 on each of the ten days. If you were going to make a graph of this data, what scale and interval would you use? Explain your choices. What did you consider when choosing the scale? What things did you consider when choosing the interval? (4.01)



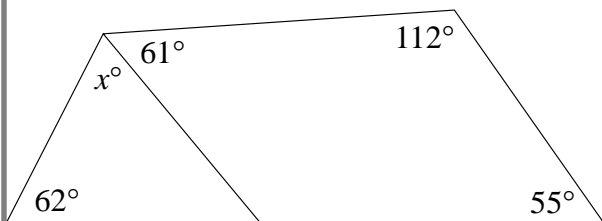
### Solve It!

A certain factory makes bikes and trikes. Seats come in boxes of six. The workers hate to have any leftovers at the end of their shift. If 59 wheels are sent by the home office, how many boxes of seats should be ordered? (Review)



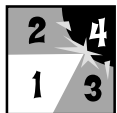
### Geometry Rules

Find the measure of angle  $x$ .



### Write On!

- One thing I like about math is \_\_\_\_\_.
- One thing I do not like about math is \_\_\_\_\_.
- One thing I can do well in math is \_\_\_\_\_.
- One thing I would like to improve on in math is \_\_\_\_\_.
- This year in math I hope my teacher \_\_\_\_\_.



# Keeping Skills Sharp

Write answers here:

1.  $825 + c + 450 = 1850$

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

2.  $2.72 \div 0.8$

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

3.  $8 - 2 \times m = 2$

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

4. Rename as a fraction and decimal:  $55\frac{5}{9}\%$

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

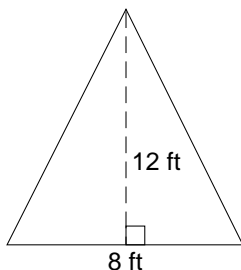
5. Write the prime factorization of 180.

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

6. Find the GCF: 18, 45

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

7. Find the area:



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

8.  $7.4 + (5 - 1)^2$

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

9. Nearest tenth to: 0.423

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

10. Estimate:  $434 \times 748$

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  
5

## Solve It

6 boxes of seats will  
make 11 trikes and 13  
bikes with no leftovers.

## Algebraically Speaking

$$p - \$16 = \$37$$

$$p = \$53$$

## Geometry Rules

$70^\circ$

## Math Mania

4 folder; 3 pens;  
2 notebooks

## Investigate Data

Scales and intervals may vary. When choosing scale, students should be sure to include all values of the data. One example of an appropriate scale is 0 to 20. When choosing an interval, students must choose an interval which separates the scale into equal parts. Possible scales for this data are 2 or 4.

## Keeping Skills Sharp

- 575
- 3.4
- 3
- $\frac{5}{9}, 0.\bar{5}$
- $2^2 \times 3^2 \times 5$
- 9
- 48 ft<sup>2</sup>
- 23.4
- 0.4
- 280,000

## Mental Math

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

- $\frac{2}{5}$  of 45
- $8 - 3\frac{2}{3}$
- $? + 9.5 = 10$
- Sum of 25 and 52
- $1\frac{1}{2}$  pounds = \_\_\_\_\_ ounces
- $0.2 = \frac{?}{100}$
- $\frac{3}{5} \times \frac{5}{6}$
- $25\% = \frac{?}{100}$
- $0.08 \times 0.09$
- $9 \times ? = 72$

## Mental Math Answers

- 18
- $4\frac{1}{3}$
- 0.5
- 77
- 24
- 20
- $\frac{1}{2}$
- 25
- 0.0072
- 8



### Algebraically Speaking

Write a word expression for:

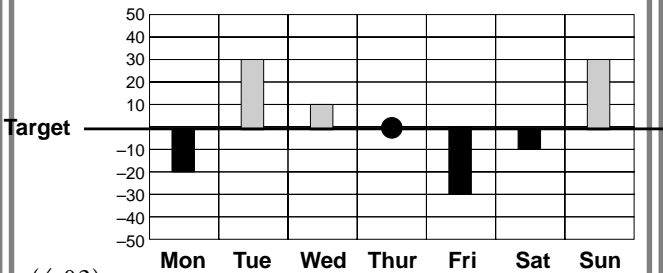
$$2p - 3$$

(5.03)



### Investigate Data

A telemarketer is expected to make a certain number of phone contacts per day. Here is a graph showing the contacts made for one week. What is the mean of this data?



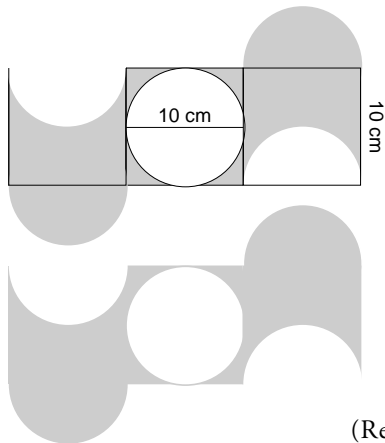
(4.02)



### Geometry Rules

Find the area of the shaded region in the congruent shapes below.

(Right angles at all vertices)



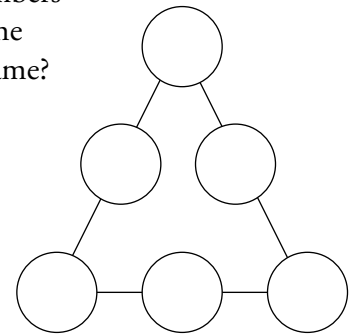
(Review)



### Mathmania

#### Using Objects

Place the first six counting numbers in the circles so that the sum on each side of the triangle is nine. Is it possible to use the numbers four to nine to make the sum of each side the same?



(Review)



### Solve It!

Susan's age this year is a multiple of 3. Next year her age will be a multiple of 4. If Susan's younger sister is in kindergarten and her older brother is 23, how old is Susan?

(Review)



### Write On!

Your second grade sister is learning about subtraction and she says to you: "When you subtract, you always take the smaller number away from the larger number." Based on what you have learned about subtracting integers, explain why your sister's statement is not always true. Write a problem that supports your written explanation.

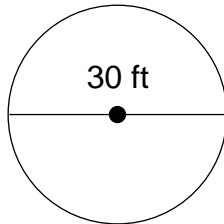
(1.02)



# Keeping Skills Sharp

Write answers here:

1.  $14,542 - E = 4,667$
2.  $3.7 \times B = 0.0333$
3.  $45 \div 9 + M \times 3 = 23$
4. 58% of 42 =
5. Write the prime factorization of 141.
6. 40 minutes + 55 minutes + 10 minutes =  
\_\_\_ hour(s) \_\_\_ minutes
7. Find the circumference:



8.  $3 \times [5 + (7 - 5)^2] =$
9.  $2 \times (12 \times 3) = (? \times 12) \times 3$
10. Estimate:  $8.907 \times 7.7$

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.

- |                |                 |
|----------------|-----------------|
| <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  $\rightarrow$   
WEEK  
6

## Algebraically Speaking

Twice a number decreased by three or three less than twice a number.

## Investigate Data

+1.4 or 1.4 calls above the target

## Geometry Rules

$2 \times 10^2 + 10^2 - 25\pi$   
is about  $221.5 \text{ cm}^2$ .

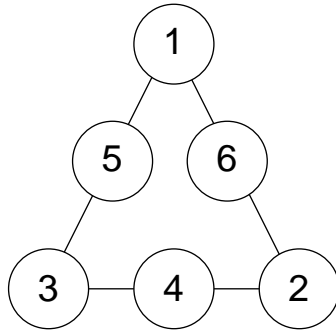
## Solve It

15 years

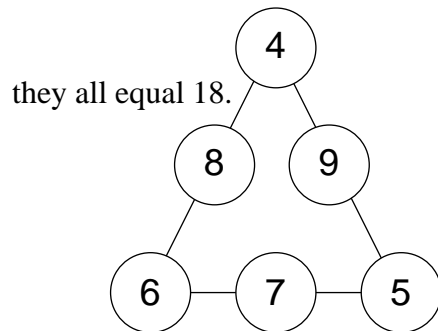
## Write On

Answers will vary.

## Math Mania



Yes, using 4, 5, 6, 7, 8, 9;



## **Keeping Skills Sharp**

- 9,875
- 0.009
- 6
- 24.36
- $3 \times 47$
- 1 hour 45 minutes
- 94.2 feet
- 27
- 2
- 72

## **Mental Math**

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

- $? \div 1,000 = 100$
- Nearest hundredth to: 7.526
- $0.99 - 0.76$
- $\frac{5}{10} = \%$
- $\frac{4}{5} \times \frac{15}{20}$
- $\$20 - \$15.99$
- $875 + 155 = 155 + ?$
- $700 \text{ mm} = \underline{\hspace{1cm}} \text{ m}$
- $12.5 \div \frac{1}{2}$
- Find the LCM of 12 and 20.

## **Mental Math Answers**

- 100,000
- 7.53
- 0.23
- 50
- $\frac{3}{5}$
- $\$4.01$
- 875
- 0.7
- 25
- 60