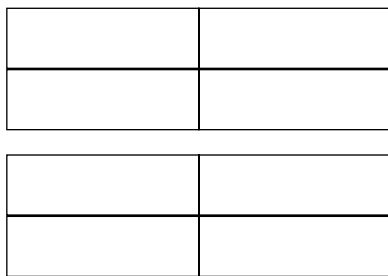




### Fraction Action

Draw a diagram to show that the fraction  $\frac{3}{4}$  is the same as the

fraction  $\frac{9}{12}$ .

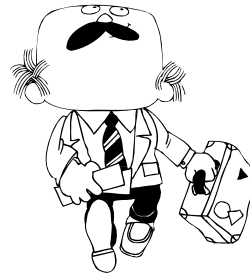


(1.03)



### Probability Pizzazz

Matt packed four pairs of slacks (blue, black, tan, and grey) and three shirts (white, yellow, and green) for a trip. List all the different outfits that he could wear.



(4.01)



### Solve This!

Sandy delivers a total of 126 papers every week. If she delivers twice as many papers on each day of the weekend as she does on each day of the week, how many papers does she deliver on Sunday?



(1.07)

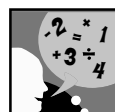


### Geometry Gems

The garden below has fencing around the perimeter and as a partition down the center. The length of the garden is 30 feet, and the entire length of fencing used is 37 yards. How long is the partition (in feet)?



(Review)



### Mathematically Speaking

John and Betty both estimate the solution to  $429 + 389$ . Explain why John's answer of 800 differs from Betty's answer of 820.

(Review)



# Keeping Skills Sharp

1.  $m + 54 = 82$

2.  $\frac{7}{12} + \frac{5}{12} =$

3.  $0.5 + 0.3 =$

4.  $16 \times 4 =$

5. 2 feet = \_\_\_\_\_ inches

6. Find the perimeter of a rectangle with the given length and width.

$L = 12 \text{ cm}$       $W = 10 \text{ cm}$

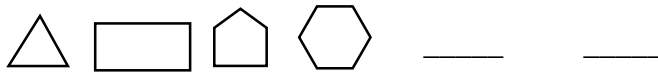
7. Find median for the following set of temperatures.

$\{26^\circ, 26^\circ, 27^\circ, 29^\circ, 32^\circ, 25^\circ, 35^\circ\}$

8.  $(76 + 24) \div 10 =$

9. If the letters of the word "ISOSCELES" were put on cards and placed in a bag, what is the probability that a vowel would be picked?

10. Draw the next two figures.



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

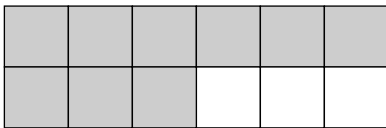
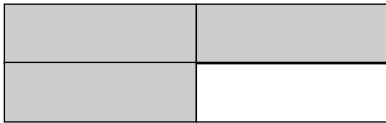
Grade 6

WEEK  
1

## Solve This!

28 papers are delivered on Sunday.

### Fraction Action



### Geometry Gems

17 feet

### Mathematically Speaking

John estimated by giving the answer to the nearest hundred. Betty gave the answer to the nearest ten.

### Probability Pizzazz

12 possible outfits

#### Slacks

Blue

Blue

Blue

Black

Black

Black

Tan

Tan

Tan

Grey

Grey

Grey

#### Shirt

White

Yellow

Green

White

Yellow

Green

White

Yellow

Green

White

Yellow

Green

## Keeping Skills Sharp

- 28
- 1
- 0.8
- 64
- 24 inches
- 44 cm
- median = 27
- 10
- $\frac{4}{9}$
- any septagon  
any octagon

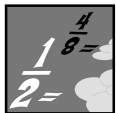
## Mental Math

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

- 836 to the nearest ten?
- What number is 3 tenths less than 1?
- How much is 6 dimes, 3 nickels, and 1 quarter?
- How many inches are in 4 feet?
- How many cups are in a quart?
- Nine less than what number is 6?
- The sum of what number and 14 is equal to 21?
- The product of 4 and 12 is divided by some number to get an answer of 3. What is the number?
- If  $\frac{2}{5}$  of a pizza costs \$4.00, how much will the whole pizza cost?
- Eighteen is equal to twice what number?

## Mental Math

- 840
- 0,7
- \$1
- 48 inches
- 4
- 15
- 7
- 16
- \$10.00
- 9



### Fraction Action

A man weighs  $\frac{5}{6}$  of his weight plus 30 pounds.  
What is his weight?



(1.07)



### Probability Pizzazz

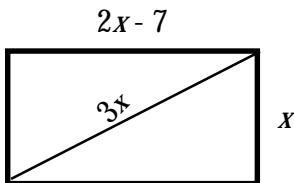
The sixth grade class officers: president, vice-president, secretary, and treasurer will be seated in a row of four chairs at the class meeting. In how many different ways may the four officers be seated?

(4.01)



### Solve This!

Write an expression to represent the perimeter of the following rectangle.

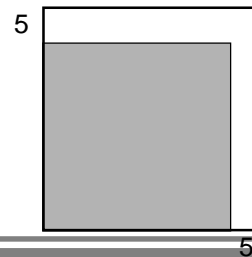


(5.01)



### Geometry Gems

If two sides of a square field were increased by five feet, as seen in the diagram, the area of the field would increase by 245 ft<sup>2</sup>. Find the area of the original square.



(review)



### Mathematically Speaking

What is the easiest way to multiply a number by 100?

(1.04)



# Keeping Skills Sharp

Write answers here:

- $192 + k + 12 = 213$  1. \_\_\_\_\_
- $\frac{7}{12} + \frac{7}{12} =$  2. \_\_\_\_\_
- $1.5 + 0.3 =$  3. \_\_\_\_\_
- $25 \times g = 75$  4. \_\_\_\_\_
- 2 quarts = \_\_\_\_ pints 4. \_\_\_\_\_
- Find the area of a rectangle with the following dimensions.  
 $L = 12 \text{ cm}$   $W = 10 \text{ cm}$  5. \_\_\_\_\_
- Find the range for the following scores:  
26, 26, 27, 29, 32, 25, 35 6. \_\_\_\_\_
- $46 + 8 \div 4 + 6 =$  7. \_\_\_\_\_
- If a fair spinner is divided into 4 equal parts, 2 colored blue, one green and one red, what is the probability that you would spin a blue? 8. \_\_\_\_\_
- For the spinner in #9 above, what is the probability that you would spin a green or a red? 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 6

WEEK  
2

## Fraction Action

Solution: 30 lbs is the other sixth which means every other sixth must be 30 lbs as well.

$$6 \times 30 \text{ pounds} = 180 \text{ pounds}$$

## Geometry Gems

Answer:  $484 \text{ ft}^2$ . The corner piece is  $5 \times 5$  or  $25 \text{ ft}^2$ . The rest of the new space is then  $220 \text{ ft}^2$ . Each small added rectangle must be  $22 \times 5$ . The square is  $22 \times 22$ .

## Solve This!

$$6x - 14$$

## Probability Pizzazz

24 possibilities

## Mathematically Speaking

The easiest way to multiply a number by 100 is to add two zeros to the right end of it, or if it is a decimal number, shift the decimal two places to the right.

## Keeping Skills Sharp

- 9
- $\frac{14}{12} = 1\frac{2}{12} = 1\frac{1}{6}$
- 1.8
- 3
- 4
- $120 \text{ cm}^2$
- Range = 10
- 54
- $\frac{1}{2}$
- $\frac{2}{4}$  or  $\frac{1}{2}$

## Mental Math

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

- $11 \times 700$
- $900 \times 40$
- $64,000 \div 0.8$
- $\frac{4}{5} + \frac{3}{10}$
- If  $\frac{5}{10}$  of a number is 80, what is the number?
- Estimate  $56 \times 3$ .
- Which fraction is smaller?  $\frac{1}{10}$ ,  $\frac{1}{5}$ ,  $\frac{1}{8}$
- What is the product of the factors of 6?
- $10\frac{1}{3} - 8\frac{1}{6}$
- $\frac{9}{10} \times 5$

## Mental Math

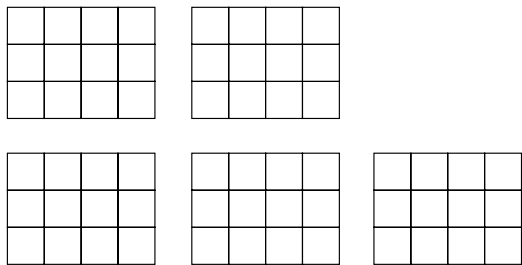
- 7,700
- 36,000
- 80,000
- $\frac{11}{10}$  or  $1\frac{1}{10}$
- 160
- $\approx 180$
- $\frac{1}{10}$
- $1 \times 2 \times 3 \times 6 = 36$
- $2\frac{1}{6}$
- $\frac{9}{2}$  or  $4\frac{1}{2}$



### Fraction Action

Shade in the shapes below to find the sum:

$$1\frac{1}{4} + 2\frac{2}{3}$$



(1.04)



### Probability Pizzazz

John is doing an activity that involves tossing three fair coins. What is the probability that he will obtain two Heads and one Tail on his next toss?



(4.02)



### Solve This!

Susan is working out a problem in which she is supposed to put numbers in each shape. If there is a 5 in the square, and the answer is 32, what number was in the triangle?

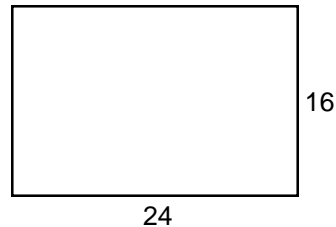
$$\square^5 + \triangle^3$$

(1.05)



### Geometry Gems

How many 3 cm by 4 cm tiles are needed to cover this figure? Is there any other size tile that will fit this figure without having to be cut? Name them. Explain.



(1.05)



### Mathematically Speaking

Two methods can be used to determine where to place a decimal point when multiplying decimals. Tell what they are.

(1.04)

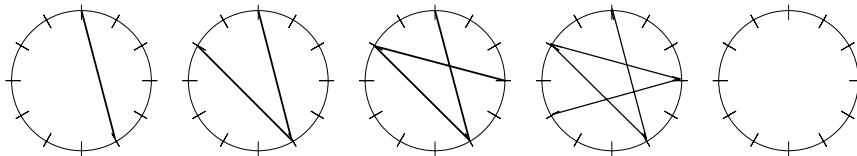


# Keeping Skills Sharp

- $3 + w + 97 = 115$
- $2\frac{1}{3} + 12\frac{5}{6} =$
- $2.5 + 0.031 =$
- Order from least to greatest:  $\frac{5}{6}, \frac{7}{10}, \frac{3}{4}$
- 36 inches = \_\_\_ yards
- An isosceles triangle with a base of 5 cm has a perimeter of 30 cm. How long are each of the other two sides?
- Find the median: 18, 7, 26, 10, 15.
- $(10 + 2) \div (6 - 3) =$
- If you roll a fair six-sided number cube, what is the probability that you will roll a number less than a 3?
- Draw the next figure in the pattern.

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 \_\_\_\_\_

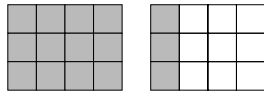


# Answer Key

Grade 6  
WEEK  
3

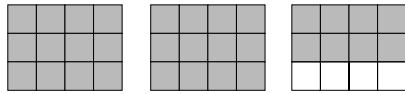
## Solve This!

The answer is 3.  $5 + 3^3 = 32$



## Fraction Action

The answer is  $3\frac{11}{12}$ .



## Geometry Gems

It will take 32 tiles (3 cm by 4 cm) to cover the figure. There are 34 other sizes that will fit. The length of the tile should be a factor of one side, and the width should be a factor of the other side.

## Probability Pizzazz

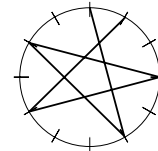
$$\frac{3}{8}$$

## Mathematically Speaking

1. Estimate your answer.
2. The number of decimal places to right of the decimal in the answer should be the sum of the number of decimal places to the right of the factors.

## Keeping Skills Sharp

1. 15
2.  $15\frac{1}{6}$
3. 2.531
4.  $\frac{7}{10}$ ,  $\frac{3}{4}$ ,  $\frac{5}{6}$
5. 1
6. 12.5
7. median = 15
8. 4
9.  $\frac{2}{6}$  or  $\frac{1}{3}$
- 10.



## Mental Math

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

1.  $2 \times 7 \times 5$
2.  $15 \times 2 \times 5 \times 2$
3. Find the product of 3 and 840.
4.  $2400 \div 60$
5.  $90 - 40 + 80 - 40$
6. Write 75% as a decimal.
7. What is the least common multiple of 6 and 8?
8. Which of these is larger?  $\frac{65}{100}$ ,  $\frac{4}{5}$ , 0.81
9.  $\frac{5}{8} = \frac{?}{32}$
10.  $10 - 5\frac{1}{5}$

## Mental Math

1. 70
2. 300
3. 2520
4. 40
5. 90
6. 0.75
7. 24
8. 0.81
9. 20
10.  $4\frac{4}{5}$