Fraction Action

At the school picnic, the class spent $\frac{1}{2}$ of an hour eating, $1\frac{3}{4}$ hours playing basketball, $1\frac{2}{3}$ hours playing soccer, $\frac{1}{5}$ of an hour eating dessert, and $\frac{1}{20}$ of an hour running to get out of the rain.

(1) If the picnic started at 11:00 a.m., when did it end?

(2) How much more time was spent playing than eating?

(1.04, 1.07)

Solve This!

Seven sisters wanted to plant gardens of equal areas. Each garden had an area of 48 yd². If their gardens are arranged as seen below, what is the perimeter of the entire garden?

| y | y | y | y |

x x

y y

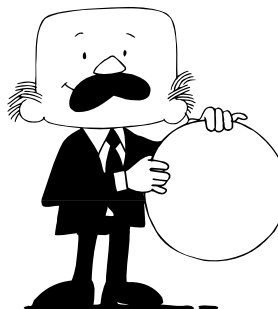x x x

(2.02)

Probability Pizzazz

A fair number cube (numbered 1 - 6) is rolled twice. What is the probability that the first roll is a prime number, and the second roll is a composite number?

(4.02)

Geometry Gems

Which has the greater area:
a circle with circumference of 40.5 feet or
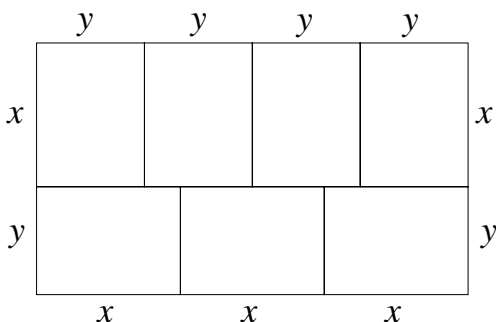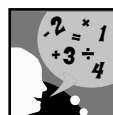a circle with radius 80 inches?
Explain.

(2.02)

Mathematically Speaking

Simplify: $\frac{1}{2}\ (2a + 16b)\ +\ \frac{2}{3}\ (12a + 6b)$

(5.01)

Keeping Skills Sharp

1. $9 \times 4 + 14 \div 7 =$

2. Solve for c: $c + (6 - 2) \times 3 = 20$

3. $5 + 1.25 =$

4. Solve for n: $16 \times n = 256$

5. 14 ft = ___ yd ___ ft

6. Find the area of a rectangular garden whose length is 8 feet and whose width is 72 inches.

7. Add one number to the following set of data (ages of children in years) so that the mode does not change.

   1, 1, 2, 2, 3, 3, 3, ___

8. $6 \times 3 + 5 \times 4 =$

9. If the first letters of the months are written on cards (1 letter per card) and the cards are placed in a bag, what is the probability of picking a "**J**"?

10. Complete the pattern: A, C, E, G, I, ___, ___, ___

Write answers here:

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Mental Math

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

9 _____

10 _____

Solve This!

$x = 8$ and $y = 6$. The perimeter would be 76 units.

Fraction Action

(1)   The picnic ended at 3:10 p.m.
(2)   They spent 2 hours 43 minutes more playing than eating.

Geometry Gems

The circle with radius 80 inches has the larger area. The other circle has a radius of only about 77 inches.

Probability Pizzazz

$\dfrac{6}{36}$

Mathematically Speaking

$9a + 12b$

Keeping Skills Sharp

1.   38
2.   8
3.   6.25
4.   16
5.   4 yd 2 ft
6.   48 ft^2
7.   Anything except 1 or 2.
8.   38
9.   25% or $\dfrac{1}{4}$
10. K, M, O

Mental Math

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

1.   Write in exponential notation sixteen to the seventh power.

2.   Write $\dfrac{1}{5}$ as a decimal.

3. $\dfrac{5}{12}$ of 24

4.   How many ounces are in 5 pounds?

5. 0.3×0.5

6. $600 - 51$

7.   Write the ratio of 6 blackbirds to 8 bluebirds.

8.   Estimate $1\dfrac{18}{19} + 2\dfrac{1}{12}$

9. $5^2 \times 3^2$ is the prime factorization for what number?

10. $5 + 1\dfrac{1}{4}$

Mental Math

1. 16^7
2.   0.2
3.   10
4.   80 oz.
5.   0.15
6.   549
7.   6 to 8 or 3:4
8.   approximately 4
9.   225
10. $6\dfrac{1}{4}$
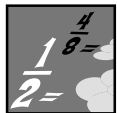
Fraction Action

Lori and Randy had a new room to paint. Lori spent about $2\frac{9}{20}$ hours painting and Randy spent about $3\frac{1}{2}$ hours. About how much time did they spend altogether on painting the room?

(1.04)

Solve This!

A candle was 45 centimeters long. It was lit and 20% burned off. Then the candle went out. The next day the candle was lit and 25% burned off. Then it went out. On the third day the candle was lit, $\frac{1}{3}$ burned off. Then it went out. How long was the candle after the third day?

(1.02, 1.07)

Probability Pizzazz

How many three-digit area codes (with no repeating digits) can be made using 2, 5, 7, and 9?

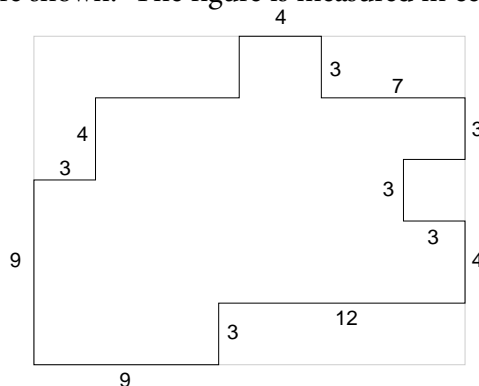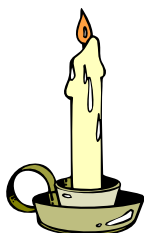What is the probability that one of these area codes is divisible by 9? . . .not divisible by 2?

(4.02)

Geometry Gems

Find the area and the perimeter of the figure shown. The figure is measured in centimeters.
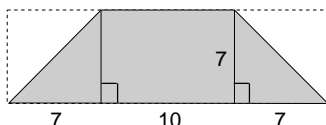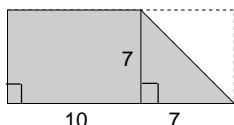

(2.02)

Mathematically Speaking

Tisha is five years older than John. Alex is three more than twice John's age. Sara is twice as old as Tisha. If John's age is represented by A, what is the algebraic representation for the other ages?
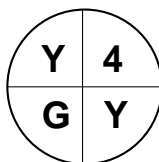
(5.02)

Keeping Skills Sharp

1. $672 + 28 =$

2. $7 \times 4 - 2 \div 1 \times 6 =$

3. Solve for J: $6.72 - J = 3.92$

4. $300 \div 25 =$

5. Use $<$, $>$, or $=$.

   72 inches $\bigcirc$ 2 yards

6. Find the areas:

7. Add one number to the following set of scores so that the median does not change: 70, 60, 90, 80, 100.

8. $3 + 4 \times 6 - 3 =$

9. What is the probability of the spinner landing on **Y**?

10. Complete:

   1, 2, 2, 4, 8, 32, 256, ___

Mental Math

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

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

9 _____

10 _____

Geometry Gems

228 square centimeters is the area.
The perimeter is 80 centimeters.

Solve This!

18 cm

Fraction Action

About 6 hours

Mathematically Speaking

Tisha: $A + 5$; Sara: $2(A + 5)$; Alex: $2A + 3$

Probability Pizzazz

There are 24 possible area codes,

P(divisible by 9) = $\frac{6}{24}$ or $\frac{1}{4}$

P(not divisible by 2) = $\frac{18}{24}$ or $\frac{3}{4}$

Keeping Skills Sharp

1. 700

2. 16

3. 2.8

4. 12

5. 72 inches = 2 yards

6. Area #1 is 94.5 square units.
   Area #2 is 119 square units.

7. 80

8. 24

9. $\frac{2}{4}$ or $\frac{1}{2}$

10. 8,192

Mental Math

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

1. Write 3 to the 5th power in standard form.

2. One angle of a pair of supplementary angles has a measure of 42°. What is the measure of the second angle?

3. Write 0.75 in fraction form.

4. How many pounds are in 3 tons?

5. How many minutes are in 12 hours?

6. $1\frac{1}{2} - \frac{3}{4}$

7. What is the probability of rolling a 6 on a fair die?

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

9. $\frac{1}{2} \div \frac{1}{2}$

10. 3.2 – 1.4

Mental Math

1. $3^5 = 243$

2. 138°

3. $\frac{3}{4}$

4. 6,000 pounds

5. 720 minutes

6. $\frac{3}{4}$

7. $\frac{1}{6}$

8. $1\frac{1}{4}$

9. 1

10. 1.8

Fraction Action

Shade the rectangle to show $\frac{1}{3}$ of $\frac{1}{4}$.

What fractional part of the polygon is

$\frac{1}{3}$ of $\frac{1}{4}$?

(1.04)

Probability Pizzazz

Pete had a pizza party. Participating at the party were Pierre, Patrick, Paul, Pele, and Fred. After Pete had seated himself at the table, how many different seating arrangements were possible?

(4.01)

Solve This!

Misty spent half of her allowance buying four books. She spent one-fourth of her allowance buying seven pens that cost 50 cents each. How much did each book cost?
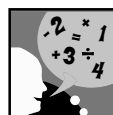
(1.07)

Geometry Gems

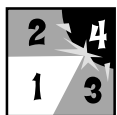Select three rectangular objects from home or school. Determine the length, width, perimeter and area of each.

(2.01)

Mathematically Speaking

Simplify: $\frac{2}{3}(6R + S) + \frac{1}{4}(8R + 15S)$

(5.01)

Keeping Skills Sharp

1. Solve for *L:* $139 + L + 982 = 1{,}388$

2. When graphing on the coordinate plane, the vertical axis is called the _____.

3. $0.425 + 0.175 =$

4. $67 \times Z = 2278$

5. What polygon has perpendicular diagonals ?

6. Find area and perimeter:

   6 in

   6 in
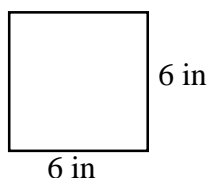
7. Find the range of the following ages: 3, 10, 4, 3, 7, 3, 12, 8, 21, 14, 3, 11

8. Simplify: $6 + 7 \times 2$

9. If the letters in the word "math" are written on cards, what is the probability of picking one card at random and it being from the first half of the alphabet?

10. Complete the pattern: 3, 8, 13, 18, 23, ___, ___, ___

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 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

9 _____

1 0 _____

Fraction Action

$\frac{1}{3}$ of $\frac{1}{4}$ = $\frac{1}{12}$

Solve This!

$1.75

Geometry Gems

Answers will vary

Probability Pizzazz

120

Mathematically Speaking

$6R + 4\frac{5}{12}\ S$

Keeping Skills Sharp

1. 267
2. y-axis
3. 0.6
4. 34
5. rhombus, kite, square
6. $A = 36$ in^2 $P = 24$ in
7. 18
8. 20
9. $\frac{3}{4}$
10. 28, 33, 38

Mental Math

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

1. Write 0.25 as a percent.
2. Four quarts = _____ cups
3. Six meters = ___ centimeters
4. $\frac{1}{4} + \frac{3}{4}$
5. Two minutes = _____ seconds
6. Compare and order from least to greatest:

   $\frac{1}{2}, \frac{1}{4}, 1, \frac{3}{4}$
7. What are the factors of 12?
8. $0.36 + 5$
9. $\frac{2}{3} \times \frac{4}{5}$
10. $425 + 175$

Mental Math

1. 25%
2. 16
3. 600
4. 1
5. 120 seconds
6. $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1$
7. 1, 2, 3, 4, 6, 12
8. 5.36
9. $\frac{8}{15}$
10. 600