Fraction Action

It is $3\frac{11}{12}$ miles around Westwood Park's bike trail. After skating around the trail $5\frac{1}{2}$ times, Bonnie lost a wheel. About how many miles had she skated?

(1.04)

Probability Pizzazz

If you toss two fair number cubes with faces labeled zero to five, what is the probability that the sum of the two numbers will be greater than seven? Is there one sum that is more likely to occur than any other sum? Explain.

(4.02)

Geometry Gems

Janine made a poster in the shape of a regular pentagon. If the perimeter of the poster is 60 inches, what is the length of each side of the poster? What is the sum of the measures of the interior angles of the poster?
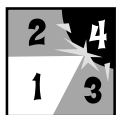
(Review)

Solve This!

Jimmy spends $\frac{3}{4}$ of an hour getting ready for work. It takes 30 minutes to travel to his office. If he needs to be at work at 9:00 a.m., what time should he get up?

(1.04)

Mathematically Speaking

Explain why one is called the multiplicative identity and zero is called the additive identity.

(5.01)

Keeping Skills Sharp

1. $156 - h = 131$

2. If a coach estimates that each football player will eat $\frac{3}{4}$ of a pizza, how many should he order to feed 16 players?

3. $4 - 1.58 =$

4. $13\frac{1}{2} \div 2\frac{1}{4} =$

5. 1 meter = ___ centimeters

6. Find the perimeter of the parallelogram:
   base = 10.1 cm; side = 8.2 cm; height = 9.1

7. Find the median for the following measurements: 12 cm, 16 cm, 18 cm, 21 cm, 28 cm, 30 cm

8. $9 + 2 \times 5 + 6 =$

9. If the letters of the word "CITY PLANNER" were each written on a card and placed in a bag,, what is the probability of picking an "N"?

10. Complete the pattern: 1, 4, 16, 64, ___, ___

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 _____

10 _____

Answer Key

Solve This!

7:45 a.m.

Geometry Gems

12 inches; 540°

Fraction Action

Best estimate might be 4 miles × 5.5 trips 22 miles.

Mathematically Speaking

Answers will vary.   Ex. Multiplying one by any number does not change the value of the number. Adding zero to any number does not change the value of the number..

Probability Pizzazz

$P(\text{sum} > 7) = \dfrac{6}{36}$ or $\dfrac{1}{6}$

The sum of 5 is more likely than any other sum

$P(\text{sum} = 5) = \dfrac{6}{36}$ or $\dfrac{1}{6}$

Keeping Skills Sharp

1. 25
2. 12 pizzas
3. 2.42
4. 6
5. 100
6. 36.6 cm
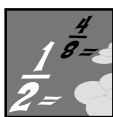7. median = 19.5 cm
8. 25
9. $\dfrac{2}{11}$
10. 256, 1024

Mental Math

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

1. 820 + 900
2. 524 + 260
3. 3600 ÷ 9
4. 50 × 48
5. 8 × 6 × 500
6. What time is it 4 hours and 15 minutes after 1:30 p.m.?
7. How many ounces are in 3 cups and 1 pint?
8. What is the product of 8, 0, 5, and 6?
9. Which is larger, a meter or 3 feet?
10. How many centuries are in 475 years?

Mental Math

1. 1,720
2. 784
3. 400
4. 2,400
5. 24,000
6. 5:45 p.m.
7. 40 ounces
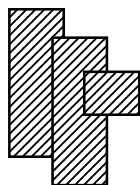8. 0
9. 1 meter
10. $4\dfrac{3}{4}$ centuries

Fraction Action

Show how to divide $2\frac{1}{4}$ rectangular candy bars

so that three friends may share them equally.

What fractional part of a candy bar will each receive?

(1.04)

Solve This!

John bought 9 CDs. Some of them cost $12.75, and the rest cost $11.95. The total was $112.35. How many did he buy at each price?
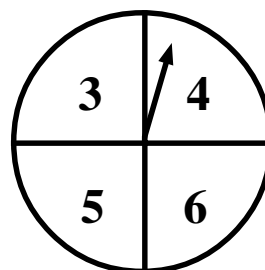
# at $12.75	Cost	# at $11.95	Cost	Total

(1.04)

Probability Pizzazz

Emily spins the fair spinner shown below twice and determines the sum of the two numbers.

What is the probability that the two numbers will produce the smallest possible sum? the largest possible sum? a sum of nine?

(4.02)

Geometry Gems

If one of the angles of an isosceles triangle measures 64°, determine all the possibilities for the measures of the other two angles.
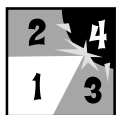
(Review)

Mathematically Speaking

Simplify the following:

$8(x + 2) - 4x + 7$

(5.01)

Keeping Skills Sharp

1. $y - 12 = 16$

2. $\dfrac{18}{25} \div 2 =$

3. $0.5 - 0.0281 = 31$

4. $837 \div f =$

5. 1 ton = _____ pounds

6. Find the perimeter of a regular octagon with sides of 5.5 cm.

7. Find the range of the given distances: 2 km, 101 km, 125 km, 227 km, 307 km.

8. $9 + 6 - 4 \times 3 + 12 =$

9. If you roll a pair of fair six-sided number cubes, what is the probability of rolling two numbers whose sum is 2?

10. Complete the pattern: 1, 64, 2, 32, 4, 16, ___, ___

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 _____

10 _____
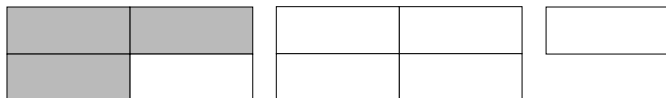
Fraction Action

Dividing each bar into fourths makes a total of

9 fourths. Each friend can have $\dfrac{3}{4}$.

Solve This!

6 CDs cost $12.75, 3 cost $11.95

Mathematically Speaking

4x + 23

Geometry Gems

Two possibilities: 64°, 58°, 58° or 64°, 64°, 52°

Probability Pizzazz

$$P\,(\text{smallest sum}) = \frac{1}{16} \qquad P\,(\text{largest sum}) = \frac{1}{16}$$

$$P\,(\text{sum of 9}) = \frac{4}{16} \quad \text{or} \quad \frac{1}{4}$$

Keeping Skills Sharp

1. 28
2. $\dfrac{9}{25}$
3. 0.4719
4. 27
5. 2000
6. 44 cm
7. range = 305 km
8. 15
9. $\dfrac{1}{36}$
10. 8, 8
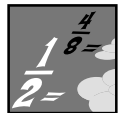
Mental Math

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

1. 600 + 3,300
2. 900 – 100 – 20
3. 590 – 300
4. 30 + 25 + 20
5. 6,300 ÷ 7
6. Number of faces on 3 Kleenex boxes.
7. Number of vertices on a cube.
8. How many quarters are in $6.75?
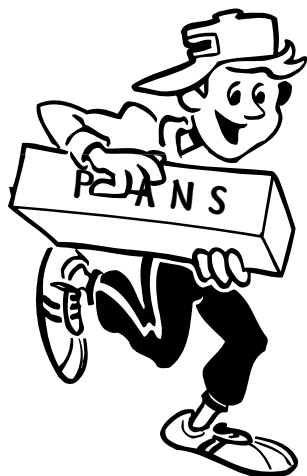9. What time is $1\frac{1}{2}$ hours before noon?
10. 64 in = ___ ft

Mental Math

1. 3,900
2. 780
3. 290
4. 75
5. 900
6. 18
7. 8
8. 27
9. 10:30 a.m.
10. $5\frac{1}{3}$ ft or 5 ft 4 in

Fraction Action

For a fund raiser, the sixth grade boxed 5 pounds of pecans. If each box weighed $\frac{1}{3}$ of a pound, how many boxes were there?

(1.04)

Solve This!

Matt is running in a 9 mile race. Each mile he runs is $\frac{3}{4}$ of a minute longer than the mile before it. If his first mile is 5 minutes, how long will it take him to run the entire race? How many seconds is this?
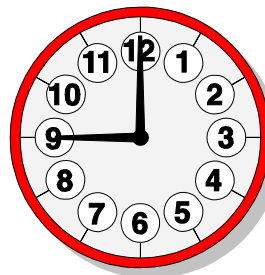
(1.07)

Probability Pizzazz

Suzy is tossing four fair coins and recording the results. If she does this 600 times, predict the number of times she will get exactly two heads.

(4.02)

Geometry Gems

If it is 9:00 p.m., what is the first time(approximate) during the next hour that the hands on the clock will form an acute angle?

(Review)

Mathematically Speaking

Explain how a right triangle can help you decide whether another angle is acute or obtuse

(review)

Keeping Skills Sharp

1. What is the difference between 26 and 8?

2. Write $\frac{4}{12}$ in simplest form..

3. $.06 + \boxed{} = 2.1$

4. $\begin{array}{r} 2\,0\,1 \\ \boxed{}\,)\overline{16\boxed{}8} \end{array}$

5. If you needed 10 cups of milk in a recipe, how many quarts of milk must you buy to make the recipe?

6. How many feet of border will I need to put around the 4 sides of my bulletin board if the length is 5 yards and the width is 2 yards?

7. What is the range of ages of the following students: John 16, Peter 15, Sue 13, Paul 16, Jane 12?

8. $1 + 12 \div 2 \times 6 - 5 = $ ___

9. If you roll a pair of six-sided number cubes, what is the probability of rolling two numbers whose sum is 6?

10. What are the next numbers in the pattern?

1, 2, 3, 5, 8, 13, ___, ___

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 _____

10 _____

Fraction Action

15 boxes

Probability Pizzazz

About 225 times
P (exactly 2 Heads) = $\frac{6}{10}$ or $\frac{3}{8}$

Geometry Gems

Approximately 9:31 p.m.
Answer assumes that hour hand is fixed.

Solve This!

72 minutes, 1 hour 12 minutes or 4,320 seconds

Mathematically Speaking

Angles with measure smaller than the measure of a right angle are acute, angles with measure larger than the measure of a right angle but less than 180° are obtuse.

Keeping Skills Sharp

1.   18

2. $\frac{1}{3}$

3.   2.04

4. $8\overline{)16\boxed{0}8}$ 201

5.   3 quarts

6.   42 feet

7.   4 years

8.   32

9. $\frac{5}{36}$

10. 21, 34

Mental Math

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

1.   200 + 80 + 8000

2.   124 + 8

3.   225 + 25 + 50

4.   225 + 50

5.   490 ÷ 70

6.   What are the first 4 square numbers?

7.   6000 lbs = _____ tons

8.   Write $\frac{1}{3}$ as a decimal.

9.   How many US flags can a company make if they have 2500 stars?

10. What is $\frac{2}{5}$ of 40?

Mental Math

1.   8280

2.   132

3.   300

4.   275

5.   7

6.   1, 4, 9, 16

7.   3 tons

8. $.3\overline{3}$ or .333…

9.   50

10. 16