



Fraction Action

Mr. Jones is buying supplies for a scout camping trip. The breakfast cereal comes in a 24 ounce box. If a single serving is 1.5 ounces, how many boxes will he need for 45 servings?



(1.04, 1.07)



Probability Pizzazz

The digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 are written on tiles and placed in a bag. Without looking, Susan draws one tile, records the number, replaces the tile, draws a second tile and records that number.

What is the probability that she will draw only one prime number?

What is the probability that she draws the same prime number both times?

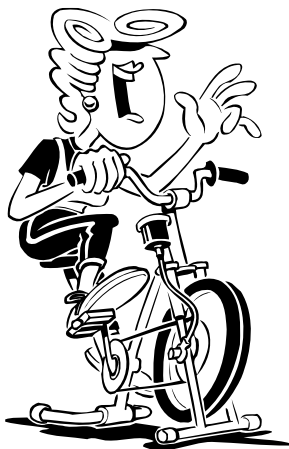
(4.05)



Solve This!

Dave's mom joined a health club in January. It costs \$99.00 to join, in addition to a monthly fee. Her total expenses for the year were \$519.00.

Write an equation that represents this situation and determine the monthly fee, m .



(5.03)



Geometry Gems

Graph a polygon, R , in the coordinate plane and label all its vertices. Rotate the figure 180° clockwise about the origin and give the coordinates of the image, R' .

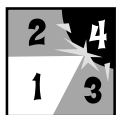
(3.03)



Mathematically Speaking

Jesse multiplied two and two-thirds by seven and one-half and got a product of fourteen and two-sixths. What mistake did he make and what is the correct product?

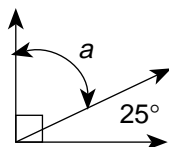
(1.04)



Keeping Skills Sharp

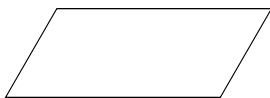
Write answers here:

1. What is the measure of angle a ?



1. _____

2. Name this shape:



2. _____

3. How many lines of symmetry does this figure have?



3. _____

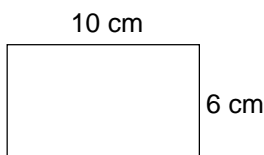
4. 60 meters = _____ centimeters

4. _____

5. 2 yards = _____ inches

5. _____

6. What is the perimeter of this rectangle?

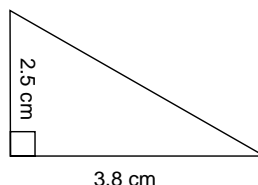


6. _____

7. Define the diameter of a circle.

7. _____

8. What is the area of a triangle with a base of 3.8 cm and height of 2.5 cm?



8. _____

9. Compute the median and range of this group of scores.
86, 95, 100, 83, 90, 62, 75, 73, 65, 100, 82, 67, 94, 92

9. _____

10. Write $\frac{1}{4}$ as a decimal.

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

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5

10

Answer Key

Grade 6

WEEK
25

Fraction Action

Three boxes of cereal

Solve This

$$99 + 12m = 519$$

monthly fee, m , is \$35.00

Probability Pizzazz

P(only one prime number) = 0.48

P(same prime twice) = 0.04

Geometry Gems

Answers will vary

Mathematically Speaking

20; explanations will vary

Keeping Skills Sharp

- 65
- parallelogram
- 4
- 6,000
- 72
- 32 centimeters
- a line segment with endpoints on the circle and passing through the center of the circle
- 4.75 cm^2
- median 84.5, range 38
- 0.25

Mental Math

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

Write each percent as its fraction equivalent.

- 20%
- 50%
- 60%
- 75%
- 25%

Estimate.

- 111×21
- $226 \div 25$
- $141 - 12$
- $603 + 312$
- 7×17

Mental Math

- $\frac{1}{5}$
- $\frac{1}{2}$
- $\frac{3}{5}$
- $\frac{3}{4}$
- $\frac{1}{4}$
- 2000 (answers may vary)
- 9
- 130
- 900
- 140 (answers may vary)



Fraction Action

Write two fractions that are equivalent to each of the following:

- A $\frac{2}{3}$
 B $\frac{2}{5}$
 C $\frac{11}{12}$

(Review)



Probability Pizzazz

A drawer contains five black socks, three brown socks and one blue sock. Jess pulls three socks out of the drawer, one at a time, without looking.

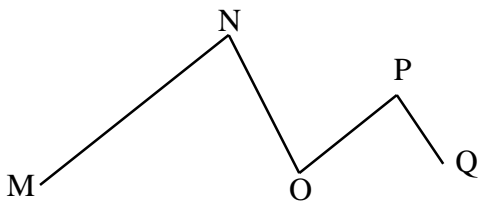
What is the probability that the first sock is black, the second sock is black and the third sock is blue?

(4.05)



Solve This!

The distance from M to N is 32 meters. From N to O the distance is $\frac{3}{4}$ of the distance from M to N. From O to P is $\frac{2}{3}$ of the distance from N to O. From P to Q is $\frac{1}{2}$ the distance from P to O. What is the distance from P to Q?

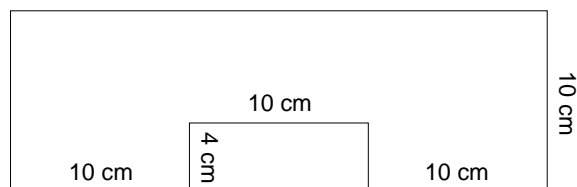


(1.07)



Geometry Gems

What is the perimeter of this figure?



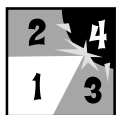
(2.02)



Mathematically Speaking

Explain the relationship among 75%, 0.75 and $\frac{3}{4}$.

(1.02)



Keeping Skills Sharp

Write answers here:

1. Simplify: $\frac{20}{8}$ 1. _____
2. What is a variable? 2. _____
3. Solve for z : $z - 7 = 15$ 3. _____
4. Solve for n : $7n = 14$ 4. _____
5. Which property does this equation illustrate?
 $15 + 9 = 9 + 15$ 5. _____
6. Write as a mathematical equation:
Twenty divided by a number equals 5. 6. _____
7. Fill in the missing number in this pattern:
 $22, 23, 25, 28, \underline{\quad}, 37$ 7. _____
8. What rule does this sequence follow?
 $\{2, 4, 8, 16, \dots\}$ Write an expression for the n th term of the sequence. 8. _____
9. What are intersecting lines? 9. _____
10. What are two angles called if the sum of their measures is equal to 180° ? 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

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4

9

5

10

Answer Key

Grade 6
WEEK
26

Fraction Action

Answers will vary

Probability Pizzazz

$$\frac{5}{9} \cdot \frac{4}{8} \cdot \frac{1}{7} = \frac{20}{504}$$

Mathematically Speaking

75%, 0.75 and $\frac{3}{4}$ are all equivalent.

All may be renamed as $\frac{75}{100}$

Solve This

8 meters

Geometry Gems

88 cm

Keeping Skills Sharp

1. $2\frac{1}{2}$
2. A letter that is used to represent a number in an equation or expression.
3. $z = 22$ 4. $n = 2$
5. commutative property of addition
6. $20 \div n = 5$
7. 32
8. Each number is two times the preceding number. The n th term of the sequence is 2^n .
9. lines that meet or cross
10. supplementary angles

Mental Math

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

Write each percent as its decimal equivalent.

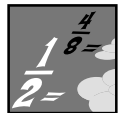
1. 50%
2. 25%
3. 75%
4. 30%
5. 10%

Estimate.

6. 42×31
7. $100 \div 21$
8. $73 - 21$
9. $290 + 350$
10. 61×19

Mental Math

1. 0.5
2. 0.25
3. 0.75
4. 0.3
5. 0.1
6. 1,200
7. 5
8. 50
9. 650
10. 1,200



Fraction Action

The distance around the lake on the greenway path is $2\frac{7}{8}$ miles. If Eve rides her bike around the lake three times how far will she have pedaled?



(1.04, 1.07)



Probability Pizzazz

A sack contains 10 yellow marbles, 10 green marbles and 10 black marbles. What is the probability of drawing three marbles, without replacement, of the same color from the sack without looking?



(4.05)



Solve This!

Lee is training for a marathon and wants to run at least 58 miles this week. She has already run 25 miles and will run the same distance each day for the next four days. Write an inequality that represents this situation and find the minimum number of miles, m , that she needs to run each day.



(5.03)



Geometry Gems

Quadrilateral ABCD: A(2, 1), B(4, 6), C(1, 5), D(-1, 3) is reflected over the x -axis. What are the coordinates of A'B'C'D'?

(3.03)

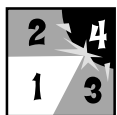


Mathematically Speaking

You are having a party for 65 people. You know that each person drinks two cups of punch. Explain how you would find out how many gallons of punch are needed.



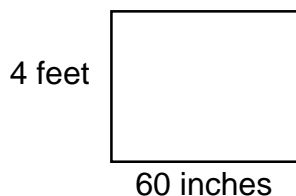
(Review)



Keeping Skills Sharp

Write answers here:

1. Find the area in square feet.



2. Order from least to greatest: -3.75, 22.4, 0.06, 2.35, -12.09, 0.224.
3. Compare using $<$, $>$, or $=$. -7 \bigcirc -12
4. What is the place value of the underlined digit: $2\underline{6}1,842$?
5. Estimate 62×102 .
6. Write 4^3 as a product of factors.
7. Simplify: $3 \times 4 \div 2 + 8$
8. What is 35% of 20?
9. $\frac{3}{6} = \frac{?}{8}$
10. Write 25.734 in words.

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

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10

Answer Key

Grade 6

WEEK
27

Solve This

$$3m + 25 \geq 58$$

Lee needs to run at least 8.25 miles each day.

Geometry Gems

$A'(2, -1)$, $B'(4, -6)$,

$C'(1, -8)$, $D'(1, -3)$

Fraction Action

$$8 \frac{5}{8} \text{ miles}$$

Probability Pizzazz

$$\frac{10}{30} \cdot \frac{9}{29} \cdot \frac{8}{28} + \frac{10}{30} \cdot \frac{9}{29} \cdot \frac{8}{28} + \frac{10}{30} \cdot \frac{9}{29} \cdot \frac{8}{28} = \frac{18}{203}$$

Mathematically Speaking

Multiply 65 by 2: 130 cups of punch are needed

Divide 130 by 16 (16 cups per gallon):

$8 \frac{1}{8}$ gallons of punch are needed

Keeping Skills Sharp

- 20 ft²
- 12.09, -3.75, 0.06, 0.224, 2.35, 22.4
- $-7 > -12$
- 10,000 or ten thousand's place
- 6,000
- $4 \times 4 \times 4$
- 14
- 7
- $? = 4$
- twenty-five and seven hundred thirty-four thousandths

Mental Math

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

- What is 10% of 60?
- What number is half-way between 27 and 31?
- 50×40
- $\frac{5}{6} + \frac{1}{6}$
- What is $\frac{1}{6}$ of 600?
- How much time is there from 7:20 a.m. to 8:30 a.m.?
- Which is greater: 0.406 or 0.46?
- Solve for n : $\frac{1}{2} = \frac{n}{10}$.
- Nearest hundredth to 23.673
- $\frac{48}{4 \times 2}$

Mental Math

- 6
- 29
- 2,000
- 1
- 100
- 1 hour and 10 minutes
- 0.46
- $n = 5$
- 23.67
- 6