



Fraction Action

A package of ground beef weighs $\frac{1}{2}$ lb. A second package weighs $\frac{3}{4}$ lb. Together will there be enough to make 6 quarter-pound hamburgers? Explain how you know.



(1.04,1.07)



Probability Pizzazz

The Gum Machine

Karen and Diane are having an argument. They both know that a gumball machine is loaded with gumballs of 6 different colors. Karen feels lucky. She thinks she can get each color by using only 6 pennies. Diane feels it will take at least 15. Let's assume that the machine is loaded with an equal number of each color. How many pennies do you think are needed to get one of each color? Do you agree with either Karen or Diane?

Use a fair number cube to experiment and find your answer.

(4.03)



Solve This!

John's rubber ball bounces exactly half the height from which it is dropped. He drops the ball from a building that is 64 feet tall. How high will the ball bounce on its sixth bounce?



(1.07)



Geometry Gems

If a square is cut along one of its diagonals, two polygons of equal area are formed. Will this also be true of a regular pentagon? Draw and explain your answer.

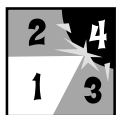
(2.02)



Mathematically Speaking

Write four **pairs** of equations that show multiplication and division are inverse operations.

(Review)



Keeping Skills Sharp

1. Solve for m : $462 + m + 856 = 1844$
2. Which is greater? $\frac{5}{8}$ or $\frac{7}{16}$
3. Which quadrilaterals could have a 45° vertex angle?
4. What is the product of the first five whole numbers?
5. How many yards are there in 2 miles?
6. What is the perimeter of a square with each side 12 meters long?
7. What is the range of the following test scores?
69, 85, 72, 98, 85
8. $6 \times 2 - 8 \div 4 =$
9. If you have 5 blue marbles, 3 red marbles, 5 white marbles, and 7 yellow marbles, what is the probability of not getting a yellow if you draw one of them out of a sack?
10. Complete the pattern: 1, 2, 4, 8, ____, ____, ____

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

Grade 6

WEEK
10

Solve This!

Bounce	Height
1st	32 ft
2nd	16 ft
3rd	8 ft
4th	4 ft
5th	2 ft
6th	1 ft

Fraction Action

The hamburger is only enough for 5 quarter-pound burgers.

Geometry Gems

No. In a square, the diagonal is also a line of symmetry. Regular pentagons have no lines of symmetry that pass through two vertices. Therefore, diagonals will always form polygons of different sizes.

Mathematically Speaking

Answers will vary.

Probability Pizzazz

Answers will vary.

Keeping Skills Sharp

- 526
- $\frac{5}{8}$
- parallelogram, trapezoid, rhombus, or kite
- 0
- 3520 yards
- 48 meters
- 29
- $\frac{10}{13}$
- $\frac{13}{20}$
- 16, 32, 64

Mental Math

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

Write each fraction
as an equivalent percent .

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

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

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

4. $\frac{1}{10}$

5. $\frac{3}{10}$

Estimate:

6. 81×2

7. $143 \div 2$

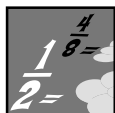
8. $115 - 82$

9. $529 + 105$

10. 19×19

Mental Math

- 50%
- 25%
- 75%
- 10%
- 30%
- 160
- 70
- 40
- 600
- 400



Fraction Action

Show how to divide half a melon into 4 equal pieces. What fractional part of the whole melon does each piece represent?



(1.04)



Probability Pizzazz

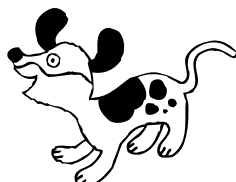
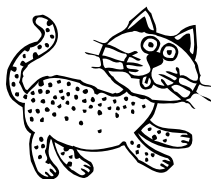
Imagine a new type of lottery. To make a four-digit number, digits are randomly chosen from 1, 5, 7 and 9, and no digit is repeated. The order of the digits is important. If your lottery number is 1579, what is the probability that you will win?

(4.02)



Solve This!

Marcy conducted a survey to determine how many students in the 6th grade had dogs or cats for pets. Thirty percent of the students had only cats, one-fourth of them had at least one dog and one cat, twenty-five percent had only dogs, and two-tenths had no dogs or cats. If there are 160 students in the class, determine the number of students in each category.



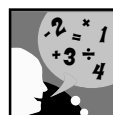
(1.02,1.07)



Geometry Gems

- (1) What happens to the area of a rectangle if one side is doubled?
- (2) What happens to the area of the rectangle if both the length and width are doubled?

(2.02)

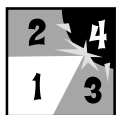


Mathematically Speaking

Solve the following:

$$2x + 17 > 42$$

(5.03)



Keeping Skills Sharp

1. Solve for b : $100 + b + 5 = 125$

2. $\frac{1}{2} + \frac{1}{4} + \frac{1}{4} =$

3. $0.2 + 0.3 + 0.5 =$

4. $175 \div 25 =$

5. 5 gallons = ____ quarts

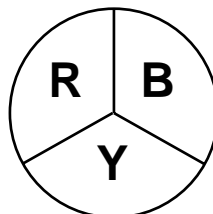
6. Find the perimeter of a rectangle whose length is twice its width, when the width is 5 inches.

7. Find the median of the following temperature readings:

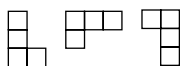
$1^\circ, 10^\circ, 2^\circ, 9^\circ, 3^\circ, 8^\circ, 4^\circ, 7^\circ, 5^\circ, 6^\circ$

8. $2 \times 7 + 3^2 \div 9 =$

9. If you spin the spinner 120 times, about how many times would you expect it to land on **B**?



10. If the original figure continues to be rotated 90° in a clockwise direction, 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 1

Fraction Action

Diagrams will vary. Answer is $\frac{1}{8}$.

Geometry Gems

When one side is doubled, the area doubles. When both dimensions are doubled, the area is multiplied by four.

Solve This!

only cats - 48; only dogs - 40;
dogs and cats - 40; no dogs or cats - 32

Mathematically Speaking

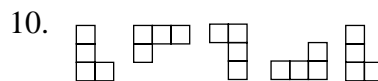
$x > 12.5$

Probability Pizzazz

$\frac{1}{24}$

Keeping Skills Sharp

- 20
- 1
- 1
- 7
- 20
- 30 in
- 5.5°
- 15
- 40



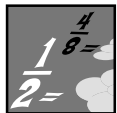
Mental Math

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

- $4,000 + 2,000 + 50 + 40$
- $17,000 - 5,000$
- $3,000 - 100$
- $5,000 - 500$
- $2 \times 7 \times 5$
- Nearest ten: 689.2
- What is the smallest common multiple of 8 and 10?
- $0.033 \div 10$
- 64.2×100
- $\frac{1}{4} + \frac{1}{2}$

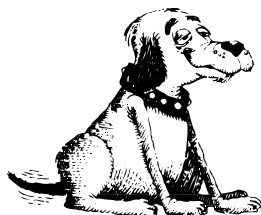
Mental Math

- 6,090
- 12,000
- 2,900
- 4,500
- 70
- 690
- 40
- 0.0033
- 6,420
- $\frac{3}{4}$



Fraction Action

Susie walks her dog, Cooper to school every day at 4 p.m. After she walks for 18 minutes, she still has $\frac{1}{4}$ of the trip to walk. How long will the rest of the trip take?



(1.07)



Probability Pizzazz

A radio station plays three songs and four commercials every 20 minutes. For one 20 minute segment the director chooses three different songs to be played and the producer chooses four different commercials. The producer then decides that the order will be song, commercial, two songs, three commercials. How many possible arrangements are there for this 20 minute segment?

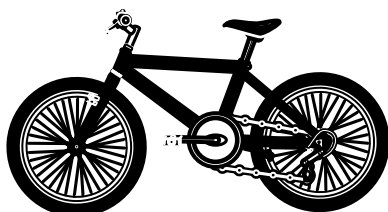


(4.01)



Solve This!

Peter bought a used bicycle with some of his money. He made 3 payments of \$29.75 each and spent \$8.50 for 2 new tires. How much did he spend for the bicycle?

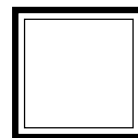
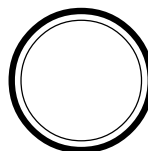


(1.04, 1.07)

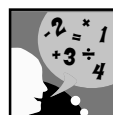


Geometry Gems

Which requires more fencing, a circular garden with diameter 6 m or a square garden with side 4.25 m? How much more?



(2.02)

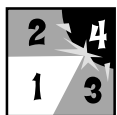


Mathematically Speaking

Evaluate if $a = \frac{1}{2}$ and $b = 2\frac{5}{8}$

$$5a^2 + 12a - \frac{2}{3}b$$

(5.02)



Keeping Skills Sharp

Write answers here:

1. Solve for M : $140 - 70 = M$

1. _____

2. $\frac{1}{2} - \frac{1}{4} =$

2. _____

3. $0.5 + 0.25 + 0.25 =$

3. _____

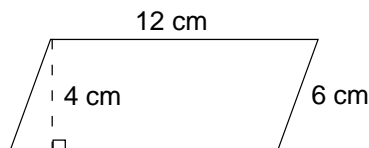
4. Solve for R : $123 \times R = 1,476$

4. _____

5. 2 miles = _____ feet

5. _____

6. Find the area.



7. Find the median of the following scores .

1	1 2 3 3
2	4 5 5 9 9
3	1 2 6 7

6. _____

8. $2 \times 3^2 \div 9 + 7$

7. _____

9. On a multiple choice question with 4 answer choices, what is the probability of choosing the correct answer if you guess?

8. _____

10. Complete:

R, Y, R, Y, B, R, Y, R, Y, B, R, _____,
_____, _____

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 2

Fraction Action

6 minutes

Solve This!

\$97.75

Geometry Gems

The circular garden requires about 1.8 meters more fencing.

Mathematically Speaking

$5\frac{1}{2}$

Probability Pizzazz

144

Keeping Skills Sharp

- 70
- $\frac{1}{4}$
- 1
- 12
- 10,560
- 48 cm^2
- 25
- 9
- $\frac{1}{4}$
- Y, R, Y

Mental Math

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

- Which is larger $\frac{7}{8}$ or $\frac{7}{9}$?
- What is the approximate value of pi?
- How do you find the area of a rectangle?
- How many ounces are in a pound?
- Write 0.66 as a percent.
- What is the sum of the first 3 prime numbers?
- $\frac{1}{8} + \frac{2}{4} + 1$
- $1.14 \div 0.2$
- $8.3 - 4.5$
- $\frac{5}{12} - \frac{2}{6}$

Mental Math

- $\frac{7}{8}$
- 3.14
- Multiply the length times the width.
- 16 oz
- 66%
- 10
- $1\frac{5}{8}$
- 5.7
- 3.8
- $\frac{1}{12}$