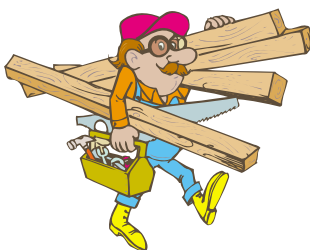


Fraction Action

John had a board $32\frac{3}{4}$ inches long. He cut off $\frac{5}{16}$ of an inch so it would fit a shelf. How long is the board now?



(1.04)



Solve This!

Which of the following could be the perimeter of a rectangle with an area of 72 cm^2 ? Explain.

36 cm, 40 cm, 100 cm, 144 cm



(2.02)



Probability Pizzazz

Laura packed five sweaters, four skirts, three jackets, two pairs of shoes and one belt for a trip. How many days can Laura wear her clothes without repeating the exact outfit?

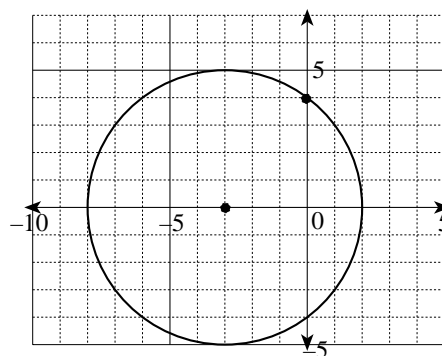


(4.01)



Geometry Gems

The circle shown has a diameter with one endpoint at $(0, 4)$. Where is the other endpoint of that diameter?



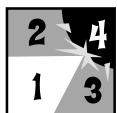
(3.04)



Mathematically Speaking

Can the sum of two prime numbers be a prime number? Explain.

(Review)



Keeping Skills Sharp

Write answers here:

1. $10,401 - 997 =$ 1. _____
2. $\frac{2}{3}$ of 12 = 2. _____
3. $3,796.32 + 4.963 =$ 3. _____
4. $965 \div 30 =$ 4. _____
5. Which is heavier: a 10 pound rock or a 100 ounce rock? 5. _____
6. Find the area of a room that is 16 feet by 13 feet. 6. _____
7. What is the mode of these test scores? the median?
36, 64, 75, 79, 81, 81, 82, 83, 83, 85, 86, 88, 88, 90, 90, 95, 99 7. _____
8. Solve: $3 + 4 \times 6 - 8 + 4 - 1$ 8. _____
9. If a card was randomly chosen from a deck of cards
numbered 1 – 50, what is the probability of drawing a
number less than 10? 9. _____
10. Complete the pattern:
5, 7, 6, 9, 8, 12, 11, ____, ____, ____, 20 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
3 4

Fraction Action

$32\frac{7}{16}$ inches long

Solve This!

36 cm Explanations will vary.

Geometry Gems

The other endpoint of the diameter is at $(-6, -4)$.

Mathematically Speaking

Yes, but one of the numbers must always be two.

Probability Pizzazz

120 days

Keeping Skills Sharp

- 9,404
- 8
- 3,801.283
- $32.1\overline{66}$
- 10 pound rock
- 208 feet²
- 90 ; 84
- 22
- $\frac{9}{50}$
- 16, 15, 21

Mental Math

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

Write each decimal as its fraction equivalent (in simplest form).

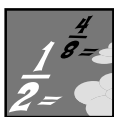
- 0.7
- 0.5
- 0.25
- 0.4
- 0.9

Estimate.

- 25×37
- $169 \div 17$
- $517 - 121$
- $77 - 21$
- 37×4

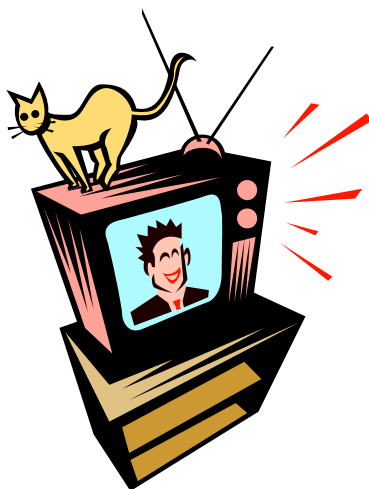
Mental Math

- | | |
|-------------------|------------------|
| 1. $\frac{7}{10}$ | 2. $\frac{1}{2}$ |
| 3. $\frac{1}{4}$ | 4. $\frac{2}{5}$ |
| 5. $\frac{9}{10}$ | 6. 1,000 |
| 7. 10 | 8. 400 |
| 9. 60 | 10. 160 |



Fraction Action

One week Joe watched TV for $5\frac{1}{4}$ hours and Amy watched TV for $4\frac{5}{6}$ hours. How much longer did Joe watch TV than Amy?



(1.04)



Probability Pizzazz

Amy tossed a pair of fair dice 150 times, and recorded the product of the numbers each time. Twenty of the trials produced a product that was an odd number. Are these results unusual? Explain.

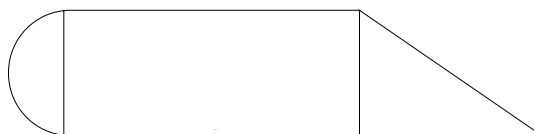


(4.04)



Measurement Gems

The plan below is for a flower garden. The center rectangle has a base of 18 feet and a height of 8 feet. The base of the triangle is 12 feet. The rounded area is a semicircle. Find the area of the garden.

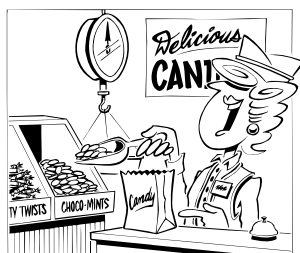


(2.02)

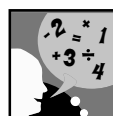


Solve This!

In a candy sale, Marie sold \$43.75 worth of candy. Tom sold as much as Marie and Ann together. Susan sold three times as much as Tom. Bill sold \$250 worth which was \$52 more than Susan. How much did Ann sell?



(1.07)



Mathematically Speaking

A circular spinner for a gameboard has three colors.

One-fourth is colored green; $\frac{2}{3}$ is red; and the rest is blue. Draw and shade this spinner. How did you decide how much to color for each section?

(1.04)



Keeping Skills Sharp

Write answers here:

1. Add five million, six hundred seventy-two thousand, four hundred ninety-two and four million, nine hundred thousand, eighty-six.
2. Find the difference between $3\frac{2}{3}$ and $1\frac{7}{8}$.
3. The bill for your lunch was \$6.92. How much should you give the cashier if you want a dime in change?
4. A farmer has 180 eggs to put in packages of one dozen. How many dozen does he have?
5. How many inches tall is a $4\frac{3}{4}$ foot fence post?
6. What is the area of the front surface of a door if the door measures 7 feet by 3 feet and there is a 1 foot by 1 foot window in the middle?
7. Write in scientific notation: 5,697,000,000
8. Simplify: $9 \div 3 + 4 - 3 + 8 \times 2$
9. The letters in the word MISSISSIPPI were put in a bag. What is the probability of drawing out a vowel?
10. What is the 20th term in this sequence?
ABCAABBCCAAA ...

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
35

Fraction Action

25 minutes

Solve This!

Ann sold \$22.25 worth of candy

Measurement Gems

The rectangle has an area equal to 144 square feet.

The triangle has an area equal to 48 square feet.

The semi-circle has an area equal to about 12.6 square feet.

The total area equals 204.6 square feet.

Mathematically Speaking

Answers will vary. Most students will divide the spinner in twelve equal sections to solve this problem. One-twelfth of the spinner is blue.

Probability Pizzazz

Yes, explanations will vary.

Keeping Skills Sharp

1. 10,572,578
2. $1\frac{19}{24}$
3. \$7.02
4. 15
5. 57 inches
6. 20 feet²
7. 5.697×10^9
8. 20
9. $\frac{4}{11}$
10. A

Mental Math

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

1. What is 5% of 80?
2. $400 - 99$
3. 3 gallons = ____ quarts
4. $\frac{1}{4} + \frac{1}{2} + \frac{1}{3}$
5. $4\frac{1}{4} + \underline{\hspace{1cm}} = 5$
6. $7 \times 4\frac{1}{7}$
7. Write $1\frac{1}{2}$ as a decimal.
8. What percent is 4 out of 5?
9. Write the next 3 multiples of 14: 14, 28, 42, ____, ____, ____.
10. $29\frac{1}{2} + 3\frac{3}{4}$

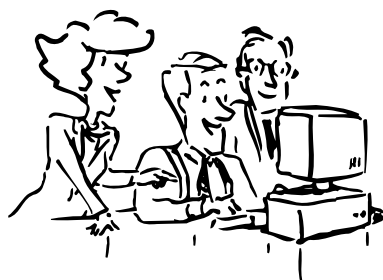
Mental Math

1. 4
2. 301
3. 12
4. $1\frac{1}{12}$
5. $\frac{3}{4}$
6. 29
7. 1.5
8. 80%
9. 56, 70, 84
10. $33\frac{1}{4}$



Fraction Action

Gene typed his book report for $\frac{2}{5}$ of an hour before school and $\frac{3}{4}$ of an hour after school. How long did he type in all?



(1.04)



Probability Pizzazz

From a group of five students, how many different three-member committees can be formed?

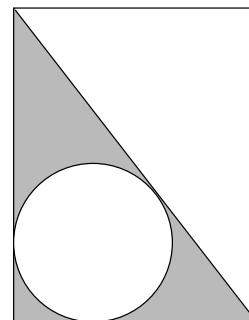


(4.01)



Measurement Gems

In the diagram, the rectangle has a height of 8 inches and a width of 6 inches. The circle has a radius of 2 inches. What is the area of the shaded region?



(2.02)



Solve This!

A recipe to make 5 dozen cookies calls for:

- 4 cups of flour
- 2 cups of sugar
- 1 $\frac{1}{2}$ cups of peanut butter
- $\frac{3}{4}$ cup of butter

What ingredients would be needed to make 20 cookies?



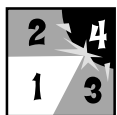
(1.04, 1.07)



Mathematically Speaking

The ratio of boys to girls in Ms. Taylor's class is 3:5. If there are 24 students in the class, how many girls are in the class?

(5.04)



Keeping Skills Sharp

Write answers here:

1. Give an estimate for $392 + 403 + 97 + 101$. 1. _____
2. Evaluate: $15ab - 2a$, if $a = 10$ and $b = 3$. 2. _____
3. $43.06 - 2.94 =$ 3. _____
4. $398 \times 402 =$ 4. _____
5. $24 \text{ cups} = \underline{\hspace{1cm}} \text{ pints}$ 5. _____
6. Find the area of a square when one side is 8 meters. 6. _____
7. Find the range of these test scores: 50, 97, 88, 94, 83, 79, 82. 7. _____
8. $\frac{1}{2} + \frac{3}{4} \times \frac{1}{3} + \frac{3}{5} =$ 8. _____
9. What is the probability of spinning two sixes in a row on a fair spinner that is divided into seven equal parts and numbered 1–7? 9. _____
10. Susie swims 20 laps on even days of the month and 21 laps on odd days of the month. During the month of April, how many laps will she have swum by midnight on April 6th? 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
36

Fraction Action

$1\frac{3}{20}$ hour or 69 minutes

Probability Pizzazz

10 committees (combinations)

Measurement Gems

Area of the rectangle is 48 in^2 .

Area of the triangle is 24 in^2 .

Area of the circle is about 12.6 in^2 .

Shaded area is about 11.4 in^2 .

Solve This!

$\frac{2}{3}$ cup of sugar

$\frac{1}{4}$ cup of butter

$1\frac{1}{3}$ cups of flour

$\frac{1}{2}$ cup of peanut butter

Mathematically Speaking

15 girls

Keeping Skills Sharp

- 1,000
- 430
- 40.12
- 159,996
- 12
- 64 square meters
- 47
- $1\frac{7}{20}$
- $\frac{1}{49}$
- 123 laps

Mental Math

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

Write each fraction as its decimal equivalent.

1. $\frac{7}{10}$

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

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

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

5. $\frac{1}{5}$

Estimate.

6. 17×12

7. $141 \div 14$

8. $101 - 23$

9. $67 + 32$

10. 6×41

Mental Math

- 0.7
- $0.33\overline{3}$
- 0.125
- 0.75
- 0.2
- 200
- 10
- 80
- 100
- 240