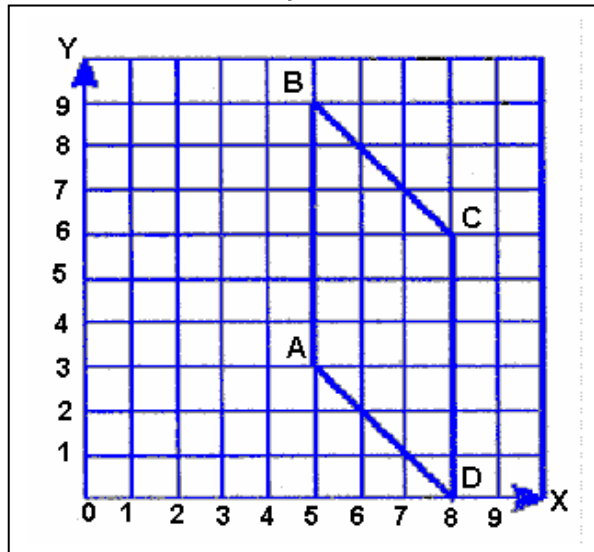


Web Demo and Topics

Math Grade 6 - Part 1

1) Diana has a collection of music albums. The graph below describes Diana's album collection by style of music. It also indicates how many albums are on cassette and compact disc. What are the coordinates of point A?



- 1) (8,0)
- 2) (5,9)
- 3) (5,3)
- 4) (8,6)

2) Len had a piece of wood $44 \frac{1}{4}$ inches long that was to be used as a shelf in a book case. Since the piece was too long, he cut $5 \frac{1}{8}$ from the length. After trying it, it still did not fit and he had to cut off another $\frac{3}{4}$ inch from the piece of wood.

Which equation shows the length, B, of the piece of wood then?

- 1) $x = 44 \frac{1}{4} - 5 \frac{1}{8} + \frac{3}{4}$
- 2) $x = 44 \frac{1}{4} - 5 \frac{1}{8} - \frac{3}{4}$
- 3) $x = 44 \frac{1}{4} + 5 \frac{1}{8} - \frac{3}{4}$
- 4) $x = 44 \frac{1}{4} + \frac{3}{4}$

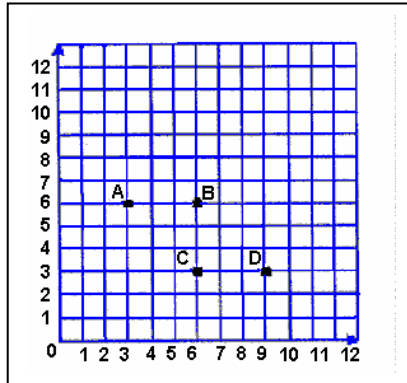
3) The chart below shows four brands of candles and how many millimeters each candle burns per hour.

Brand of Candle	Length Burned per Hour
A	46 mm
B	34 mm
C	38 mm
D	39 mm

According to the above information, how many millimeters would Brand D burn in 6 hours?

- 1) 230 mm
- 2) 234 mm
- 3) 190 mm
- 4) 195 mm

4) Which point is located at the coordinate point(9,3)?



- 1) Point A
- 2) Point B
- 3) Point C
- 4) Point D

5) During winter break Jon traveled 275.3 miles, and Joe traveled 532.8 miles. How many miles longer was Joe's trip than Jon's trip?

- 1) 269.4 miles
- 2) 257.5 miles
- 3) 247.5 miles
- 4) 357.5 miles

6) A spinner is divided into 14 equal sections. There are 2 red, 3 green, 4 blue, and 5 white sections. The spinner is spun 25 times. Which color will the spinner land on the least?

- 1) red
- 2) green
- 3) blue
- 4) white

Math Grade 6 - Part 2

1) The sum of 3 consecutive whole numbers is 24. Find the smallest of these 3 numbers.

2) The table below indicated the number of people that can be seated in selected rows in an auditorium?

Number of Seats per Row	
Row 6	175
Row 16	310
Row 26	445
Row 36	580
Row 46	

If the pattern continues, what would be the number of people who can be seated in row 46?

3) What is the least common multiple of 6 and 9?

4) Mr. Altmen had apples and pears in the ratio 8:5. He sold 195 apples and the ratio of the number of apples to the number of pears became 5:8.

Find the number of apples he had at the beginning.

The average price of 3 shirts is \$12. One of the shirts costs \$x and the other costs \$10.

What is the price of the third shirt if x is \$13.50

5) The ratio of Ray's money to Lea's is 3 : 7. Lea has \$64 more than ray. If Lea gives $\frac{2}{4}$ of her money to Ray, what will be the ratio of Ray's money to Lea's?

6) What is the prime factorization of 54?

7) Tamara's age is $\frac{1}{3}$ her mother's age. Her mother will be 48 in 12 years time.

In how many years time will Tamara's age be $\frac{1}{2}$ her mother's age?

8) There are Spanish, Chinese and Japanese books on a shelf.

The number of Japanese books to that of Spanish books is in the ratio 2:7. The ratio if the number of Chinese books to that of Japanese books is 5:4.

Find the ratio if the number of Spanish books to that of Chinese books

9) The amount of Brad's pocket money is $3\frac{1}{4}$ times that of Martha's. Find the ratio of Martha's to Brad's money.

10) Simplify: $10w + 12 - 3w - 8$

11) Clark and Doris shared a sum of money in the ratio 3:5. If Pamela were to give Peter \$24, both would have the same amount of money. How much did Clark have at first?

12) A truck set off from Town A to Town B traveling at an average speed of 48 miles/hr. It reached the town in 50 minutes. A car set off at a later time from Town A to Town B at an average speed of 60 miles/hr and reach Town B at the same time as the truck. How much earlier did the truck set off than the car?

13) $11 \times 23 = 23 + 23 + \underline{\hspace{2cm}} \times 23$
What is the missing value?

14) A car's wheel is 56 cm in diameter. How many revolutions must the wheel make to travel a distance of 1760 m? (Take $\pi = 22/7$)

15) A pen cost \$x and a pencil cost $1/2$ as much. Find the cost of 5 pens and 4 pencils.

16) Look at the number pattern.

8,16,24,32,---

What is the number sentence can be used to determine x, the ninth number in the pattern?

17) Simplify $11a - 2 - 7a + 16$

18) Two rectangular tanks A and B have the same lengths and width. However, their heights are 21 cm and 14 cm respectively. What is the ratio to the volume of Tank A to that of tank B?

19) The diameter of a circle is 24 feet. What is the measure of the radius?

20) The radius of a circle is 5 cm. What is the area of the circle?

Math Grade 6 - Part 1

Word Problems - addition - subtraction - division

Estimation - Number Sense - Computation

Algebraic Variables and Patterns

Algebraic Representations - Relationships

Geometric Concepts

Geometric Relationships

Fractions

Measurement

Analysis and Data Organization

Probability

Math Grade 6 - Part 2

Algebraic Variables and Patterns
Algebraic Representations - Relationships
Analysis and Data Organization
Estimation - Number Sense - Computation
Geometric Concepts
Geometric Relationships
Fractions
Measurement
Measurement - English System
Measurement - Metric System
Probability
Scientific Notation
Word Problems