



Ready™ New York CCLS Practice

6

Mathematics



To the Student

Ready New York CCLS Practice is a review program for the Common Core Learning Standards for Mathematics. This book has three practice tests. In each practice test, you will answer 69 Math questions (60 multiple-choice, 5 shortresponse, and 4 extended-response).

Your teacher will explain how you will do the practice tests and record your answers. Be sure to follow the directions for each practice test. As you complete the practice tests, read the passages and answer the questions carefully. Use the Answer Forms beginning on page 105 to record your answers to the multiple-choice questions. Remember to fill in the answer bubbles completely. If you change an answer, you must erase your first answer fully. You will write out your answers to the short- and extended-response questions in the book.

While you work on the practice tests, use the Testing Tips below. Read these helpful tips carefully. They can make you a better test taker.

Testing Tips for Answering Multiple-Choice Questions

- Read each question carefully before you try to answer it.
- Be sure you know what the question is asking you to do.
- Cross out any answer choices that are not reasonable. Then make your choice from the remaining choices.
- Read the question again. Check that your answer makes sense.

Contents

Practice Test 1	
Book 1: Mathematics.....	1
Book 2: Mathematics.....	14
Book 3: Mathematics.....	28
Practice Test 2	
Book 1: Mathematics.....	37
Book 2: Mathematics.....	50
Book 3: Mathematics.....	63
Practice Test 3	
Book 1: Mathematics.....	71
Book 2: Mathematics.....	83
Book 3: Mathematics.....	96
Answer Form	105

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Practice Test 1: Book 1

- 6** Square $QRST$ has vertices $Q(2, 8)$, $R(-4, 8)$, $S(-4, 2)$, and $T(2, 2)$ and triangle QTU has vertices $Q(2, 8)$, $T(2, 2)$ and $U(6, 2)$.

What is the area of the quadrilateral formed by the square and triangle?

- A** 60 square units
- B** 48 square units
- C** 36 square units
- D** 12 square units

- 7** In New York City, it rained 3.6 inches in July and 4.7 inches in August. What was the total rainfall for both months?

- A** 8.3
- B** 8.13
- C** 7.3
- D** 7.13

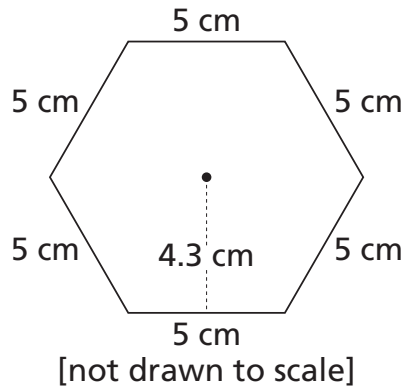
- 8** Which statement is *true*?

- A** The least common multiple of 4 and 8 is 16.
- B** The least common multiple of 4 and 10 is 40.
- C** The least common multiple of 6 and 10 is 30.
- D** The least common multiple of 6 and 8 is 48.

- 9** Jimi is n years old. Carly is 4 years older than Jimi. Which expression represents Carly's age?

- A** $2n + 4$
- B** $n + 4$
- C** $n - 4$
- D** $4n$

- 13** Consider the regular hexagon shown below.



What is the area of the hexagon?

- A** 64.5 cm²
B 30 cm²
C 21.5 cm²
D 10.75 cm²
- 14** The product of two factors is $18x + 45$. What are the factors?

- A** $9(5x + 2)$
B $9(2x + 5)$
C $3(2x + 15)$
D $3(6x - 5)$

- 15** A can of tomato soup has a net weight of 8 ounces of soup. How many grams are in the can of soup?

1 ounce = 28.35 grams.

- A** 164.4 g
B 224.8 g
C 226.8 g
D 283.5 g

22 Which expression represents the expression 7^4 ?

- A** $4 + 7$
- B** 4×7
- C** $7 + 4 + 7 + 4 + 7 + 4 + 7 + 4$
- D** $7 \times 7 \times 7 \times 7$

23 Which expression *best* represents the statement?

A number multiplied by 4, subtracted from 65.

- A** $4(65 - x)$
- B** $4x - 65$
- C** $65 - 4x$
- D** $4(x - 65)$

24 A local club sells candles as a fundraiser. A set of 6 candles sells for \$18. What is the cost of one candle?

- A** \$3
- B** \$4
- C** \$6
- D** \$8

Practice Test 1: Book 2

- 34** The formula below is used to convert a temperature in degrees Fahrenheit to a temperature in degrees Celsius.

$$^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$$

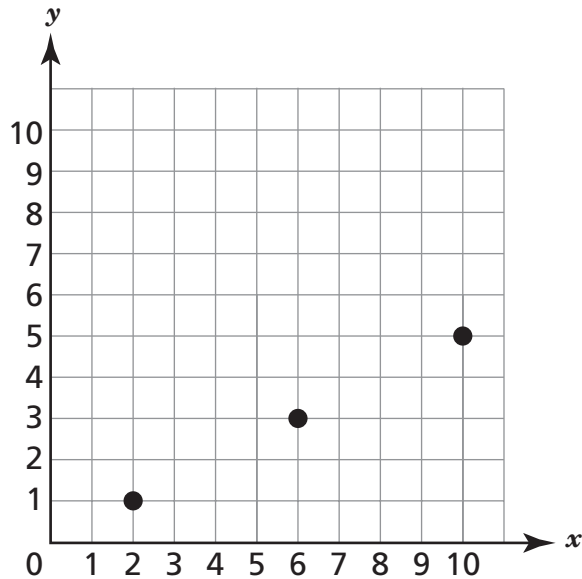
What is the temperature in degrees Celsius for a temperature of 40°F ?

- A** $-9\frac{7}{9}^{\circ}\text{C}$
- B** $1\frac{4}{9}^{\circ}\text{C}$
- C** $4\frac{4}{9}^{\circ}\text{C}$
- D** $22\frac{2}{9}^{\circ}\text{C}$
- 35** In an art class, 40% of the students used watercolors for painting. Ten students in the art class used watercolors. How many students were there in the class?
- A** 30
- B** 25
- C** 20
- D** 15
- 36** Andrew had \$250 in his savings account. He deposited the same amount of money for each of the next 6 weeks. For the next 4 weeks, he deposited twice the amount of money as the previous 6 weeks. If d is the amount of money Andrew deposited each week, which expression represents how much money he will have in his account after the tenth week?
- A** $250 + d + 4(2d)$
- B** $250 - d + 4(2d)$
- C** $250 + 6d + 4(2d)$
- D** $250 - 6d + 4(2d)$

Go On

58

The points on the coordinate plane below show two different number patterns. The first pattern gives the x -coordinates of the points. The second pattern gives the y -coordinates of the points.



What is the rule for the pattern that gives the x -coordinates?

- A** Start at 2 and multiply by 3
- B** Start at 2 and add 4
- C** Start at 1 and add 2
- D** Start at 0 and add 2

59

Lucien drove 83.25 miles to his brother's house. He used 3.7 gallons of gas. What is the average number of miles Lucien can drive using one gallon of gas?

- A** 2.25
- B** 22.5
- C** 25.2
- D** 225

Practice Test 1: Book 3

- 62** A rental hall charges a fee of \$450 to rent the hall plus \$15 per guest. The total cost, c , of renting the hall for a party for g guests is given by the formula $c = 450 + 15g$.

Part A

How much will the hall cost for a party of 50 guests?

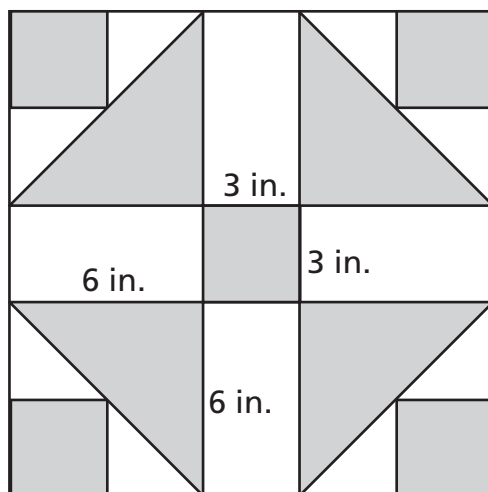
Answer _____

Part B

Alex paid \$1,575 to rent the hall. How many guests did he have at his party?

Answer _____

- 63** Carolyn is making a quilt using quilt blocks like the one shown below. All the shaded squares are the same and all the shaded triangles are the same.



Go On

65

Laura works 20 hours a week. She earns \$265 a week, which includes a \$15 weekly bonus.

Part A

Write an equation to find how much Laura earns per hour. Use h to represent the hourly rate.

Equation _____

Part B

Solve the equation to find her hourly rate.

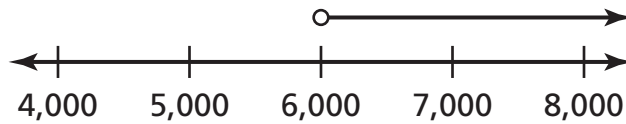
Answer _____

Part C

After getting a raise in her hourly rate, Laura now earns \$275 each week. This still includes the \$15 weekly bonus. What is Laura's new hourly rate?

Answer _____

- 17 Consider the number line below.



Which inequality represents the number line?

- A** $x \leq 6,000$
- B** $x < 6,000$
- C** $x \geq 6,000$
- D** $x > 6,000$
- 18 Misako sold 12 old video games and 17 paperback books at a garage sale. She sold each item for the same price and made a total of \$72.50. What was the price of each item?
- A** \$0.33
- B** \$2.50
- C** \$18.00
- D** \$360.00
- 19 Hiroshi found that an antivirus program on his personal computer scans 182 megabytes of data in 7 seconds. At what rate does the antivirus program scan the data?
- A** 25 megabytes per second
- B** 26 megabytes per second
- C** 28 megabytes per second
- D** 30 megabytes per second

Practice Test 2: Book2

41 Mr. Stevens asked four students in his math class to find the least common multiple of 4 and 6. Grace answered 2, Lyra answered 3, Samuel answered 12, and Brendan answered 24. Which student answered correctly?

- A** Grace
- B** Lyra
- C** Samuel
- D** Brendan

42 Use the formula below to find the time it took the Doyle family to travel d miles at a speed of r miles per hour, including a rest break.

$$t = 0.5 + \frac{d}{r}$$

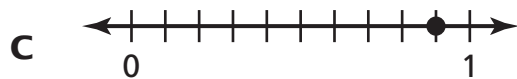
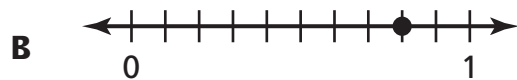
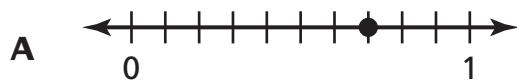
If they average 50 miles per hour, how long did it take the Doyles to travel 240 miles?

- A** 4.7 hours
- B** 4.8 hours
- C** 4.9 hours
- D** 5.3 hours

43 The county recreation department cleared a $\frac{3}{4}$ mile long walking trail in Washington Park. If the trail will be marked every $\frac{1}{12}$ mile with a small sign, how many signs are needed?

- A** 3
- B** 8
- C** 9
- D** 11

46 Which number line has the point located at 0.7?

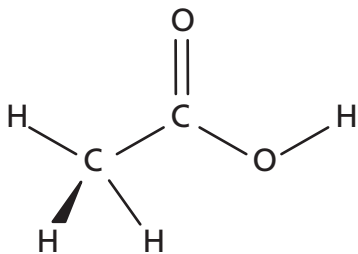


47 What is the area of rectangle $ABCD$ whose vertices are $A(0, 0)$, $B(8, 0)$, $C(8, 4)$, and $D(0, 4)$?

- A** 24 square units
- B** 30 square units
- C** 32 square units
- D** 36 square units

50

In science class, students are learning about organic compounds. The basic formula for acetic acid is shown below.



What is the ratio of carbon atoms (C) to hydrogen atoms (H)?

- A 2:4
- B 4:2
- C 6:2
- D 2:8

51

One January, the low temperature in Denver was -12°F and the low temperature in Chicago was -17°F . Which statement is *true*?

- A Since $-12 < -17$, it was colder in Denver than in Chicago.
- B Since $-12 > -17$, it was colder in Denver than in Chicago.
- C Since $-17 > -12$, it was colder in Chicago than in Denver.
- D Since $-17 < -12$, it was colder in Chicago than in Denver.

52

On a map with a coordinate grid overlay, a location 4 miles to the west of Main Street has an x -coordinate of -4 . On the same map, a location 6 miles to the east of Main Street has an x -coordinate of 6. Which statement *best* describes a location with an x -coordinate of 0?

- A The location is on Main Street.
- B The location is 1 mile east of Main Street.
- C The location is 4 miles east of Main Street.
- D The location is 6 miles west of Main Street.

Practice Test 2: Book 3

- 63** Bella is making flower baskets to sell at a craft fair. She has 16 gerbera daisy plants and 24 African violet plants.

Part A

Bella wants each flower basket to be the same. If she uses all of the plants, what is the **greatest** number of flower baskets she can make?

Answer _____

Part B

How many gerbera daisies and African violets will be in each flower basket?

Answer _____

- 64** Hannah does two puppet shows at the local community fair every year.

Part A

She uses a piece of material 18 inches long to make a costume for each puppet in the first show. If there are 6 puppets in the first show, how many yards of fabric does she need?

1 yard = 36 inches

Show your work.

Answer _____ yards

Go On

65 The cost to take a class at a local community college is \$169 per credit.

Part A

Write an expression to represent the cost of a class based on the number of credits, c .

Answer _____

Part B

The college decided to charge each student a registration fee of \$250 in addition to \$169 per credit. Write an expression to find how much a student would pay to take a class now.

Answer _____

66 Craig is building a storage box that is 4 feet by 4 feet by 6 feet out of plywood.

Part A

Draw the net of the box.

Show your work.

Practice Test 3: Book 1

Answer items 1 through 30.

1 Which expression **best** represents the opposite of the opposite of $8\frac{1}{4}$?

A $-\left(8\frac{1}{4}\right)$

B $-(-8\frac{1}{4})$

C $+(-8\frac{1}{4})$

D $+(+8\frac{1}{4})$

2 A rectangle is 8 feet long and $(7 + x)$ feet wide. Which expression represents the area of the rectangle in square feet?

A $15 + x$

B $56 + x$

C $56 + 7x$

D $56 + 8x$

3 A sporting goods store charges \$30 for 12 cans of tennis balls. The tennis coach orders 100 cans of tennis balls for the tennis team. How much will the coach pay for the tennis balls?

A \$220

B \$250

C \$280

D \$300

Go On

16 Which statement is *true*?

- A** The greatest common factor of 10 and 14 is 5.
- B** The greatest common factor of 10 and 15 is 5.
- C** The greatest common factor of 13 and 21 is 3.
- D** The greatest common factor of 14 and 21 is 3.

17 Look at the expression below.

$$\frac{1}{2}(a + b) - (a - b)^2$$

What is the value of the expression when $a = 18$ and $b = 14$?

- A** 14
- B** 12
- C** 0
- D** $\frac{1}{2}$

18 Nathan needs to sell at least 75 T-shirts to get a bonus. He has sold 38 of them already. How many more T-shirts, t , does he need to sell to get a bonus?

- A** $t \geq 37$
- B** $t > 37$
- C** $t \leq 75$
- D** $t > 75$

29 Which expression is equivalent to the expression $\left(\frac{1}{2}\right)^3$?

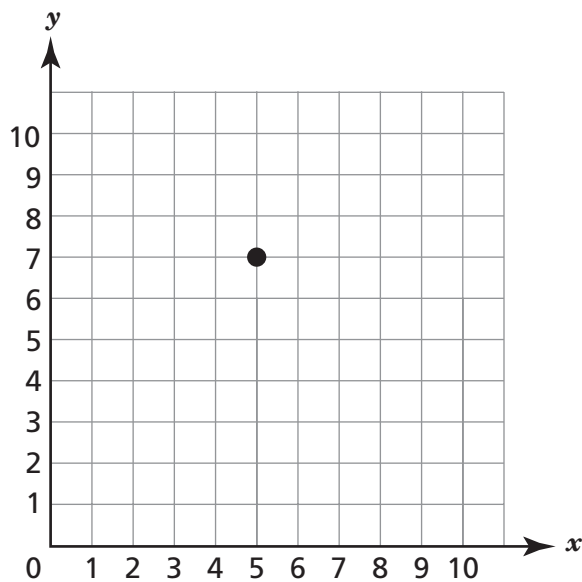
A $3 \times \frac{1}{2}$

B $\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$

C $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$

D $3 + \frac{1}{2}$

30 What are the coordinates of the point on the graph?



A (5, 0)

B (0, 7)

C (5, 7)

D (7, 5)

STOP

- 59** Which set of coordinates follows these two rules?

x-coordinates: start at 4 and add 4

y-coordinates: start at 4 and multiply by 2

- A** (4, 4), (8, 8), (12, 16)
- B** (4, 4), (8, 8), (16, 16)
- C** (4, 4), (6, 16), (8, 64)
- D** (4, 4), (16, 2), (64, 0)

- 60** A local farm charges \$4.50 a pint to pick your own raspberries. Diedre picked 5.75 pints of raspberries. How much did she pay for the raspberries? Round your answer to the nearest cent.

- A** \$23.36
- B** \$24.88
- C** \$25.87
- D** \$25.88

STOP

Part B

Diantha is riding her bike from her house to Janelle’s house. How far does Diantha ride her bike?

Answer _____

62

Rocco spent 20% of the money in his savings account on clothes. He bought \$50 worth of clothes.

Part A

Use the percent bar to model this situation.



Part B

Using the model from Part A, calculate the amount of money Rocco had in his account before buying the clothes.

Show your work.

Part C

Write and solve an equation to show how much money Rocco had in his savings account after he bought the clothes.

Show your work.

Answer _____

Go On

As part of a new fitness plan, Sabir runs on a treadmill at the same speed for 15 minutes every morning. The table shows the calories he burns over time.

Time (in minutes)	Number of Calories Burned
3	15
6	30
9	45
12	60

Part A

Write an equation to represent the relationship between the time Sabir runs and the number of calories he burns. Use x as the independent variable and y as the dependent variable.

Answer _____

Part B

Plot the points in the table on the graph shown below. Label the axes of the graph and choose an appropriate scale for each axis.

