CONTENTS

INTRODUCTION

For Parents, Teachers, and Tutors

About the Common Core State Standards

The state of California has adopted the Common Core State Standards. These standards describe the skills that students are expected to have. Student learning throughout the year is based on these standards, and all the questions on the state tests assess these standards. Just like the real state tests, the questions in this book assess whether students have the knowledge and skills described in the Common Core State Standards.

About the Smarter Balanced Assessments

In the 2014-2015 school year, the state of California introduced new assessments. These are the Smarter Balanced, or the SBAC, assessments. This book contains ten practice sets that will help prepare students for the Smarter Balanced assessments. The practice sets cover all the Common Core skills assessed and provide practice with the types of questions and tasks found on the real assessments.

Types of Questions on the Smarter Balanced Assessments

The Smarter Balanced Assessments are taken online and include a wider range of question formats than previous tests. The question types found on the test are summarized below.

- Selected-response (single answer) - students select the one correct answer from four possible options.
- Selected-response (multiple answers) - students select one or more correct answers.
- Constructed-response - students provide a numerical or a text answer. These tasks may involve providing a simple numerical answer, filling in a blank, completing a missing number in an expression, completing numbers in a table, or writing either a simple text answer or a more advanced text answer that explains a mathematical concept or explains mathematical thinking.
- Technology-enhanced - students use online features to complete a task. These tasks may involve sorting items into groups, placing items in order, using fraction models, drawing shapes, plotting points on a number line or grid, or completing graphs and charts.
- Performance tasks - these are extended tasks that are completed in combination with a classroom activity and involve completing a number of related questions. The question formats are the same as those above. While the performance tasks are not the focus of this book, gaining experience with all the question types will help prepare students for the tasks.

This book contains a wide range of question types, including questions that mimic the formats that use online features. By completing the practice sets, students will develop all the Common Core skills they need and become familiar with all the question types they will encounter on the real Smarter Balanced assessments.

Taking the Tests

The first two practice sets introduce students to the assessments with 10 questions that cover all the common question types. These short tests will allow students to become familiar with Smarter Balanced questions before moving on to longer tests. These shorter tests may also be used as guided instruction before allowing students to complete the assessments on their own. The remaining practice sets each have 20 questions. Students will have an experience similar to the real assessments, but with fewer questions and a shorter test length. By completing the practice sets, students will have ongoing practice with assessment items, develop the Common Core math skills they need, gain experience with all types of test questions, and become comfortable with the Smarter Balanced assessments.

Common Core Math

Grade 5

Practice Set 1

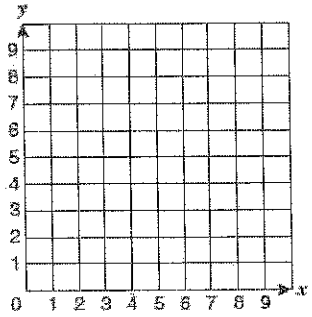
Instructions

Read each question carefully. For each multiple-choice question, fill in the circle for the correct answer. For other types of questions, follow the directions given in the question.

You may use a ruler to help you answer questions. You may not use a calculator on this test.

This test should take 45 minutes to complete.

1 Tim plotted four points on the coordinate grid below. Which point would be 5 units from the origin and on the *x*-axis? **3**



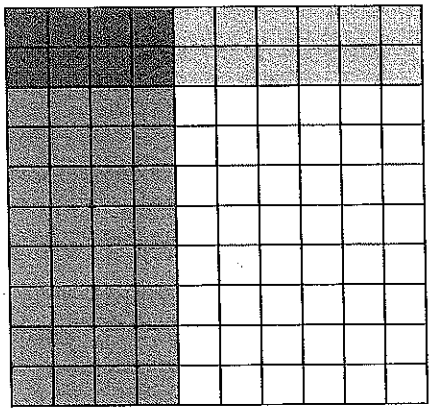
Ⓐ (0, 0)

Ⓑ (0, 5)

Ⓒ (5, 0)

Ⓓ (5, 5)

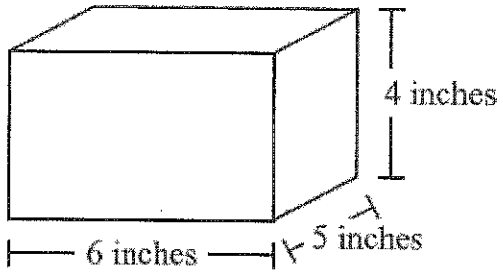
2 The grid below represents the calculation of 0.4 × 0.2. **4**



What is the value of 0.4 × 0.2? Write your answer below.

_____

3 Jonah filled the box below with 1-inch cubes. How many 1-inch cubes would it take to fill the box?



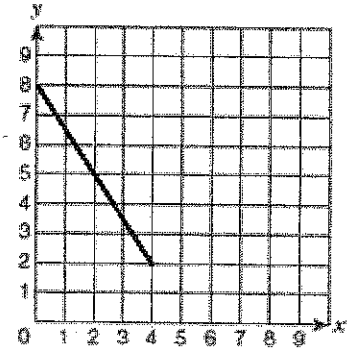
Ⓐ 15

Ⓑ 30

Ⓒ 60

Ⓓ 120

4 Which ordered pair represents a point located on the line?



Ⓐ (8, 0)

Ⓑ (4, 2)

Ⓒ (3, 3)

Ⓓ (5, 2)

5 Place the sign <, >, or = in each empty box to correctly compare each pair of decimals. 7

0.06 ☐ 0.006

1.22 ☐ 1.42

5.669 ☐ 5.667

7.535 ☐ 7.505

0.85 ☐ 0.850

9.077 ☐ 9.770

6 Don spends $12.80 on four sandwiches. If each sandwich has the same cost, what is the cost of each sandwich? Write your answer below.

_____

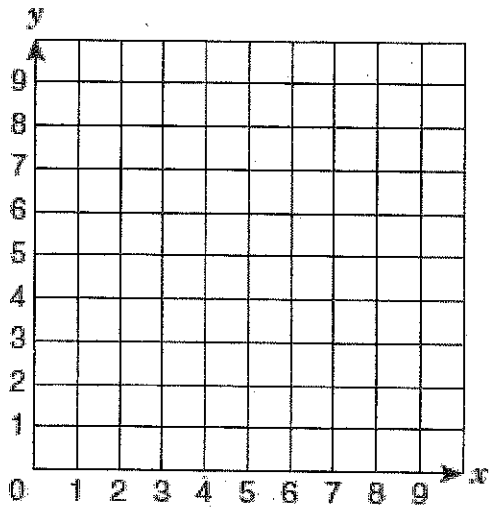
7 A pattern has the rule $y = 2x$. A second pattern has the rule $y = 2x + 2$. Complete the tables below to find the value of y for each value of x for the two patterns. Then plot both lines on the coordinate grid.

$y = 2x$

x	y
0	
1	
2	
3	

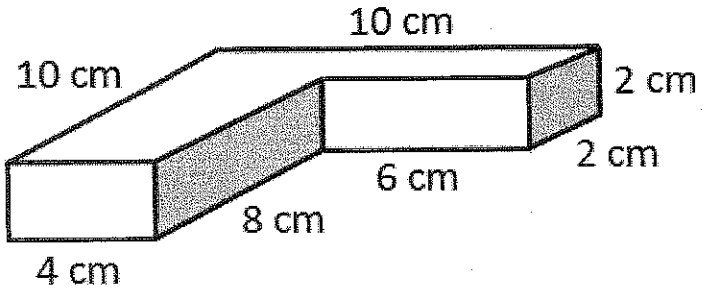
$y = 2x + 2$

x	y
0	
1	
2	
3	



On the lines below, compare the lines on the coordinate grid.

8 A timber shelf has the measurements shown below.



Determine **two** ways the shelf can be divided into two rectangular prisms. Write the dimensions of the **two** sets of rectangular prisms below.

Set 1 _____ by _____ by _____

and

_____ by _____ by _____

Set 2 _____ by _____ by _____

and

_____ by _____ by _____

What is the total volume of the timber shelf? Write your answer below. Be sure to include the correct units.

_____

9 Bradley has 64 1-inch cubic blocks. He uses all the blocks to build a rectangular prism that is 2 inches high and 2 inches wide. How long is the rectangular prism? Write your answer below.

_____ inches

Complete the table below to show the dimensions of **two** other rectangular prisms Bradley could make using all the blocks.

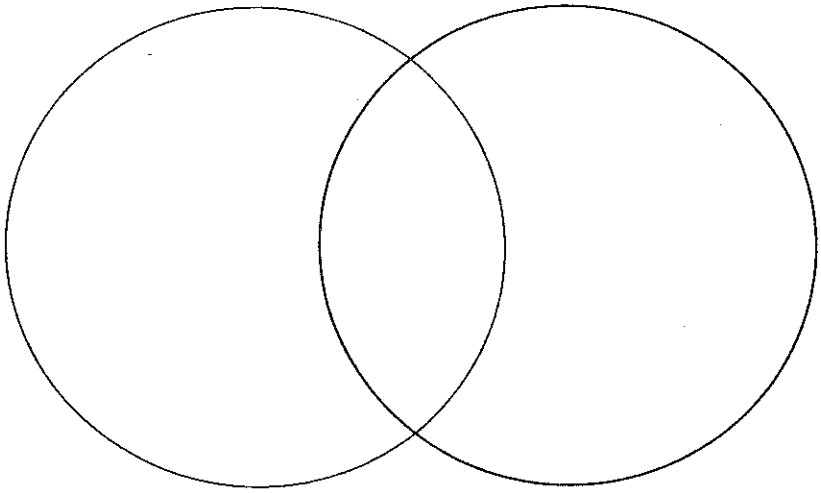
	Rectangular Prism 1	Rectangular Prism 2
Length		
Height		
Width		

Could Bradley use all the blocks to make a cube? Explain your answer.

10 Place the shapes listed below in the correct section of the Venn diagram.

rhombus rectangle square

4 equal sides 4 right angles



END OF PRACTICE SET

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Common Core Math

Grade 5

Practice Set 2

Instructions

Read each question carefully. For each multiple-choice question, fill in the circle for the correct answer. For other types of questions, follow the directions given in the question.

You may use a ruler to help you answer questions. You may not use a calculator on this test.

This test should take 45 minutes to complete.

1 Jezebel plots the point (3, 5) on a coordinate grid. Which of these describes where the point would be plotted? 3

Ⓐ 3 units up from the origin and 5 units left of the *y*-axis

Ⓑ 3 units up from the origin and 5 units right of the *y*-axis

Ⓒ 3 units to the left of the origin and 5 units up from the *x*-axis

Ⓓ 3 units to the right of the origin and 5 units up from the *x*-axis

2 The table shows the best times for running 100 meters of four students on the track team. 4

Student	Best Time (seconds)
Ramon	12.77
Ellis	12.63
Xavier	12.75
Colin	12.68

If each time is rounded to the nearest tenth, which student would have a best time of 12.7 seconds?

Ⓐ Ramon

Ⓑ Ellis

Ⓒ Xavier

Ⓓ Colin

3 Annabelle has 56 1-centimeter cubes. What are the dimensions of a rectangular prism Annabelle could build with all the cubes?

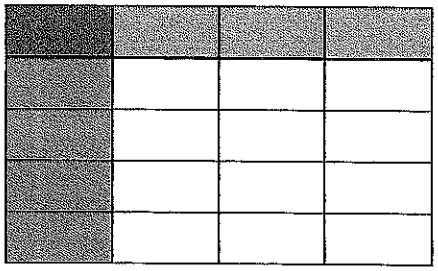
Ⓐ 7 units long, 4 units high, 2 units wide

Ⓑ 6 units long, 5 units high, 5 units wide

Ⓒ 10 units long, 2 units high, 3 units wide

Ⓓ 8 units long, 2 units high, 4 units wide

4 Circle the calculation that is represented on the grid below. Then find the value of the calculation. Write your answer on the line below.



0.25 ÷ 0.2 0.25 ÷ 4 0.2 ÷ 4 0.2 ÷ 5

Answer _____

5 Select **all** the expressions below that are equal to $\frac{2}{3}$.

- ☐ $\frac{1}{3} \times \frac{1}{3}$
- ☐ $\frac{1}{6} + \frac{1}{6}$
- ☐ $\frac{1}{3} + \frac{1}{3}$
- ☐ $\frac{1}{6} \times \frac{1}{6}$
- ☐ $3 - \frac{1}{3}$
- ☐ $\frac{5}{12} + \frac{3}{12}$

6 Bryant was reading a book with 220 pages. He read 90 pages in the first week. He wants to finish the book in 5 days. Write an expression that can be used to calculate how many pages he needs to read each day to finish the book in 5 days. Then simplify the expression to find the number of pages he needs to read each day.

Expression _____

Answer _____

7 A factory can fill 225 bottles of orange juice each hour. Each bottle of juice contains 24 fluid ounces of juice. Each bottle of juice sells for $5.50.

How many bottles of juice can be filled in each 12-hour shift? Write your answer below.

_____

If all the bottles made in a 12-hour shift sell, how much money will be made? Write your answer below.

_____

How many fluid ounces of juice are filled in each 12-hour shift? Write your answer below.

_____ fluid ounces

How many pints of juice are filled in each 12-hour shift? Write your answer below.

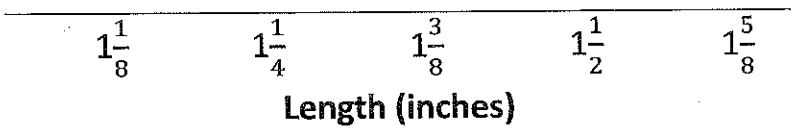
_____ pints

8 During a science experiment, Holly measured the lengths of ten acorns she collected. The lengths, in inches, are listed below.

$$1\frac{1}{4},\ 1\frac{5}{8},\ 1\frac{1}{2},\ 1\frac{1}{2},\ 1\frac{1}{4},\ 1\frac{1}{8},\ 1\frac{1}{4},\ 1\frac{1}{2},\ 1\frac{1}{4},\ 1\frac{3}{8}$$

Use the data to complete the line plot below.

Acorns



Length (inches)

What is the difference between the longest and the shortest acorn? Write your answer below.

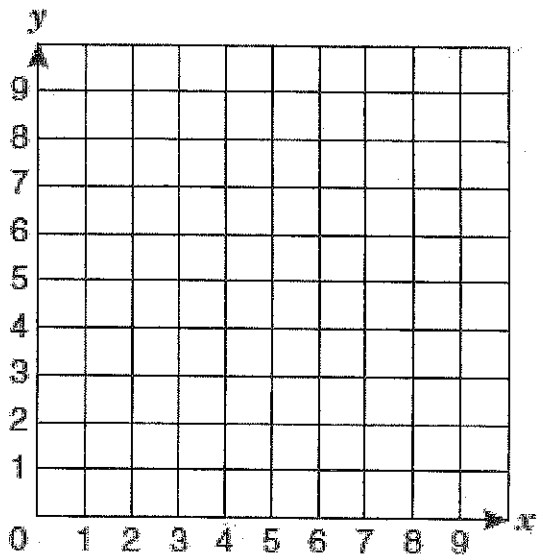
_____ inches

9

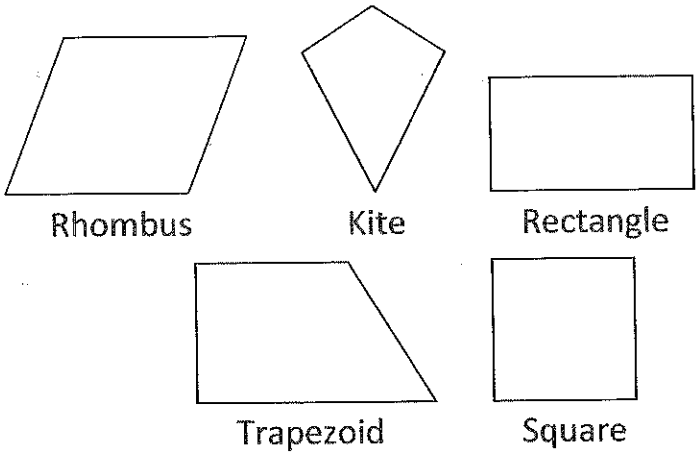
9 A pattern has the rule $y = 3x + 1$. Complete the table below to find the value of y for each value of x.

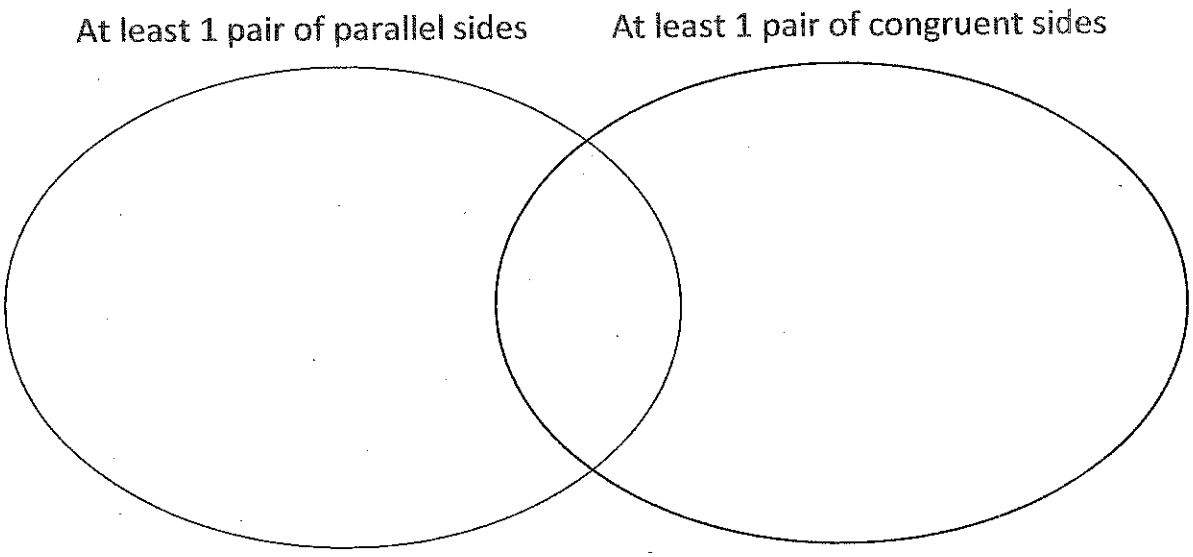
x	y
0	
1	
2	
3	

Plot the points from the table on the coordinate grid below and draw the line that connects the points.



10 Write the names of the shapes below in the correct section of the Venn diagram.





END OF PRACTICE SET

Common Core Math

Grade 5

Practice Set 3

Instructions

Read each question carefully. For each multiple-choice question, fill in the circle for the correct answer. For other types of questions, follow the directions given in the question.

You may use a ruler to help you answer questions. You may not use a calculator on this test.

This test should take 60 minutes to complete.

1 The table below shows the ticket prices for a bus tour.

Ticket	Price
Adult	$5
Child	$3
Senior	$4

Sam's family paid exactly $15 for bus tickets. Which set of tickets could they have bought?

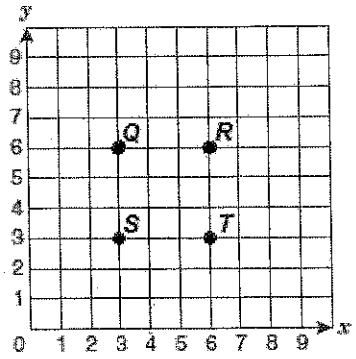
Ⓐ 1 adult, 2 child, and 1 senior

Ⓑ 2 adult, 1 child

Ⓒ 1 adult, 1 child, 2 senior

Ⓓ 3 child, 1 senior

2 Amanda plotted the four points below on a coordinate grid.



Amanda plots a fifth point that is an equal distance from two of the points. Which of these could be the coordinates of the fifth point?

Ⓐ (5, 8)

Ⓑ (3.5, 5)

Ⓒ (7, 7)

Ⓓ (9, 4.5)

3 A bakery sold 0.25 of its apple pies by lunch time. What fraction of the apple pies were sold by lunch time?

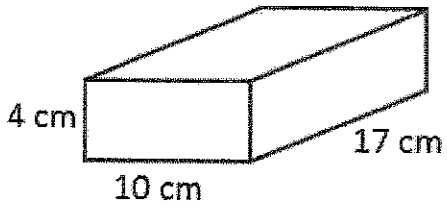
Ⓐ $\frac{1}{25}$

Ⓑ $\frac{1}{4}$

Ⓒ $\frac{2}{5}$

Ⓓ $\frac{3}{4}$

4 Lisa filled the box below with 1-centimeter cubes. How many 1-centimeter cubes would it take to fill the box?



Ⓐ 160

Ⓑ 556

Ⓒ 680

Ⓓ 1,020

8

5 Jed has 12 dimes, 18 nickels, and 42 pennies. What is the greatest common factor Jed can use to divide the coins into equal piles? Circle the correct answer.

2 3 4 6 8 12

6 Erin is sorting 65 quarters into piles. She puts the quarters in piles of 5.

9

Complete the number sentence below to show how many piles of quarters Erin has.

_____ ÷ _____ = _____

10

7 Joanne had three singing lessons one week. Two lessons went for 45 minutes, and one lesson went for 60 minutes. Which number sentence could be used to find how many minutes Joanne had singing lessons for?

Ⓐ (2 x 45) x 60

Ⓑ (2 + 45) x 60

Ⓒ (2 x 45) + 60

Ⓓ (2 + 45) + 60

8 A school has 7 school buses. Each bus can seat 48 students. A total of 303 students get on the buses to go to a school camp. How many empty seats would there be on the buses? Write your answer below.

_____

9 What is the value of the expression below? Write your answer below.

$$(16 + 20) - 8 \div 4$$

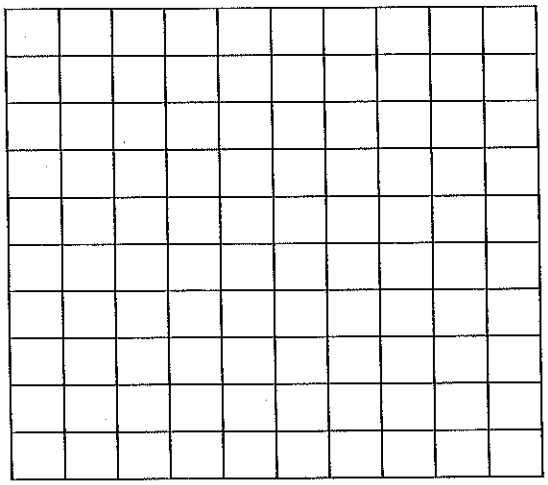
_____

10 A jug of milk contains 3 quarts of milk. Michael pours 1 pint of milk from the jug. How many pints of milk are left in the jug? Write your answer below.

_____ pints

11 A talent contest will go for 100 minutes. The contest is divided into 16 equal segments. How long will each segment go for? Write your answer below as a fraction in lowest form.

You can use the hundreds grid below to help you find your answer.



_____ minutes

12 Mike went on vacation to Ohio. When he left home, the odometer read 7,219.4 miles. When he returned home, the odometer read 8,192.6 miles. How many miles did Mike travel? Write your answer below.

_____ miles

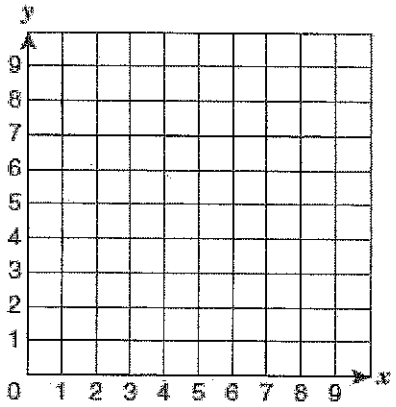
13 The table below shows the prices of items at a cake stall.

Item	Price
Small cake	$1.85
Muffin	$2.25
Cookie	$0.95

Frankie bought a small cake and a cookie. Bronwyn bought a muffin. How much more did Frankie spend than Bronwyn? Write your answer below.

_____

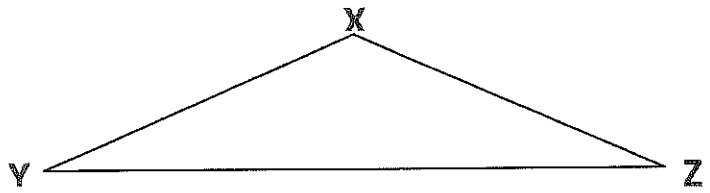
14 The grid below represents Dani's living room.



The television is located at the point (5, 4). A lamp is sitting 4 units to the right of the television and 3 units down from the television. What ordered pair represents the location of the lamp? Write your answer below.

_____

15 Justine drew the triangle XYZ below.



Based on the side lengths, what type of triangle is XYZ? Write your answer below.

_____

Explain why you classified the triangle that way.

_____

_____

_____

_____

_____

16

17

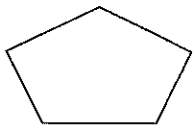
16 The table below shows the total cost of hiring DVDs for different numbers of DVDs.

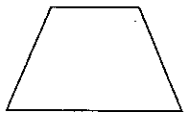
Number of DVDs (d)	Total Cost, in Dollars (C)
2	6
5	15
6	18
8	24

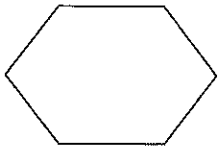
Write an equation that describes the relationship between the number of DVDs hired, d, and the total cost in dollars, C. Write your equation below.

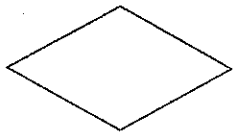
_____

17 Which of the following shapes is a pentagon?

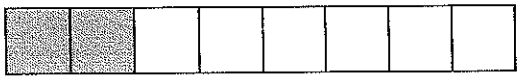
Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

18 At the start of the week, a plant had a height of $\frac{5}{8}$ inches. The plant grew $\frac{1}{4}$ of an inch during the week. Which diagram is shaded to show the height of the plant at the end of the week?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

19 On May 1, Felipe paid \$3.58 per gallon of fuel. On August 1, Felipe paid \$3.71 per gallon of fuel. By how much did the price of fuel increase?

Ⓐ \$0.03

Ⓑ \$0.07

Ⓒ \$0.13

Ⓓ \$0.17

20 Which operation in the expression should be carried out first?

$$6 + 3 \times (8 - 2 \times 2)$$

Ⓐ $6 + 3$

Ⓑ 3×8

Ⓒ $8 - 2$

Ⓓ 2×2

END OF PRACTICE SET

Common Core Math

Grade 5

Practice Set 4

Instructions

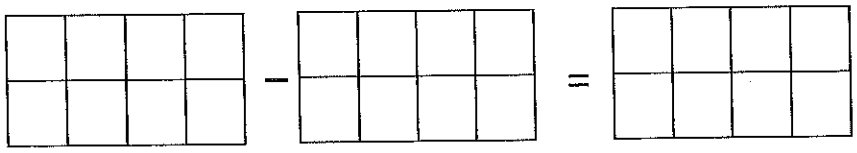
Read each question carefully. For each multiple-choice question, fill in the circle for the correct answer. For other types of questions, follow the directions given in the question.

You may use a ruler to help you answer questions. You may not use a calculator on this test.

This test should take 60 minutes to complete.

1 Shade the diagrams below to show the subtraction. Then write the correct answer below on the blank line.

$$\frac{5}{8} - \frac{1}{4} = \_\_\_\_\_$$



2 Kayla studied for a total of 150 minutes. She spent 50 minutes studying Spanish. What fraction of her total study time did she spend studying Spanish?

Ⓐ $\frac{1}{5}$

Ⓑ $\frac{1}{4}$

Ⓒ $\frac{1}{3}$

Ⓓ $\frac{1}{2}$

3 An orange tree has a height of 2.45 meters. What is the height of the tree in centimeters? Write your answer below.

_____ cm

4 Which diagram represents the sum of $\frac{1}{4}$ and $\frac{1}{8}$?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

5 Which number is less than 35.052?

Ⓐ 35.009

Ⓑ 35.061

Ⓒ 35.101

Ⓓ 35.077

6 The table below shows a set of number pairs.

x	y
1	2
3	5
5	9

If the points were plotted on a coordinate grid, which of the following would be the coordinates of one of the points?

Ⓐ (0, 0)

Ⓑ (2, 1)

Ⓒ (3, 5)

Ⓓ (4, 6)

7 A pattern of numbers is shown below.

8, 13, 18, 23, 28, 33, 38, ...

Circle **all** the numbers that could be numbers in the pattern.

41	53	60	65	67
71	76	88	92	99

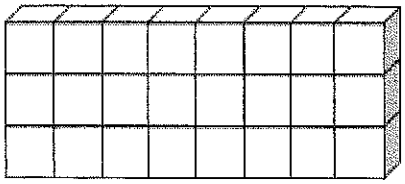
8 An orchard has a total of 192 orange trees. They are planted in rows of 12 orange trees each. How many rows of orange trees does the orchard have? Write your answer below.

_____ rows

9 Joshua bought a pair of sunglasses for $14.85 and a phone case for $2.55. How much change should he receive from $20? Write your answer below.

$ _____

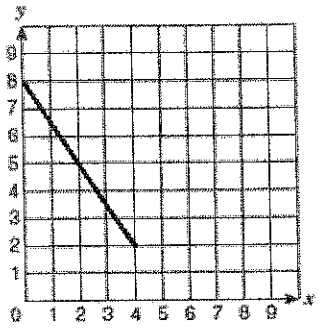
10 The model below was made with 1-inch cubes.



What is the volume of the model? Write your answer below. Be sure to include the correct units in your answer.

_____

11 The graph below shows a line segment. Complete the table below to show the coordinates of three points the line passes through.



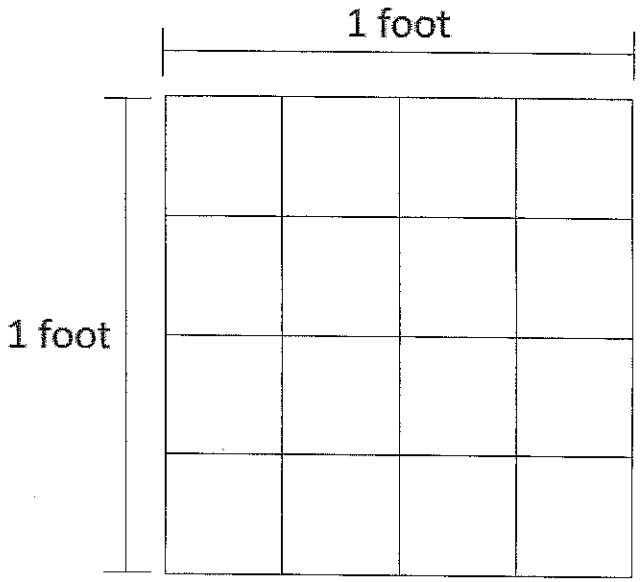
x	0	2	4
y			

What are the coordinates of the point where the line intercepts the *y*-axis? Write your answer below.

_____

12

12 Candice has a painting canvas that is $\frac{3}{4}$ foot long and $\frac{3}{4}$ foot wide. What is the area of the canvas? Shade the diagram below to find the area of the canvas. Write your answer below.

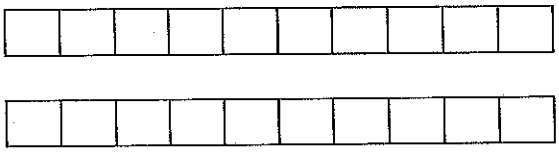


Area: _____ square feet

13 Jasper made a flag for his football team. He painted $\frac{1}{2}$ of the flag blue and $\frac{1}{2}$ of the flag yellow. He added stars to $\frac{1}{3}$ of the blue section. What fraction of the total flag is the blue section with stars? Write your answer below. **15**

_____

14 Shade the model below to show $1\frac{2}{5}$.



Use the model to find the value of $1\frac{2}{5} \div 2$. Write your answer below.

_____ **16**

On the lines below, explain how you found your answer.

_____

_____

_____

_____

_____

15 What are the two smallest 3-digit numbers that can be made using the digits 5, 7, and 2? Each digit must be used only once in each number. Write the two numbers below.

_____ and _____

On the lines below, explain how you found your answer.

16 How is the numeral 55.12 written in words?

Ⓐ Fifty-five hundred and twelve

Ⓑ Fifty-five and twelve thousandths

Ⓒ Fifty-five and twelve hundredths

Ⓓ Fifty-five and twelve

20

17 It took James and his family $2\frac{1}{4}$ hours to drive from their house to the beach. How many minutes did the drive take? Write your answer below.

_____ minutes

18 A cat weighs 9 pounds. How many ounces does the cat weigh?

Ⓐ 36 oz

Ⓑ 108 oz

Ⓒ 144 oz

Ⓓ 72 oz

19 What is the value of 10^3?

Ⓐ 30

Ⓑ 100

Ⓒ 1,000

Ⓓ 3,000

20 Which pairs of numbers could be added to the table below? Select **all** the correct answers.

Number	Number ÷ 10
85.04	8.504
501.62	50.162
19.483	1.9483

- ☐ | 28.63 | 286.3 |
- ☐ | 3.65 | 0.365 |
- ☐ | 987.78 | 9.8778 |
- ☐ | 62.69 | 0.6269 |
- ☐ | 7.25 | 72.5 |
- ☐ | 46.77 | 4.677 |

END OF PRACTICE SET

Common Core Math

Grade 5

Practice Set 5

Instructions

Read each question carefully. For each multiple-choice question, fill in the circle for the correct answer. For other types of questions, follow the directions given in the question.

You may use a ruler to help you answer questions. You may not use a calculator on this test.

This test should take 60 minutes to complete.

1 To add the fractions below, Wayne first needs to determine the least common multiple of the denominators.

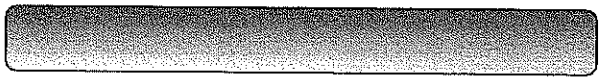
$$\frac{1}{5}, \frac{5}{7}, \frac{9}{10}$$

What is the least common multiple of the denominators? Write your answer below.

_____

2 The diagram below shows the length of a piece of ribbon.

$\frac{12}{100}$ meter



Victoria divides the ribbon into 4 equal pieces. What is the length of each piece of ribbon?

Ⓐ $\frac{2}{25}$ meter

Ⓑ $\frac{3}{25}$ meter

Ⓒ $\frac{12}{25}$ meter

Ⓓ $\frac{3}{100}$ meter

3 Donna has $8.45. She spends $3.75. How much money does Donna have left? Write your answer below.

$_____

4 Hannah cut out a piece of fabric to use for an art project. The length of the fabric was 9.5 yards. The width of the fabric was 3.6 yards less than the length. What was the width of the fabric?

Ⓐ 5.9 yards

Ⓑ 6.9 yards

Ⓒ 12.1 yards

Ⓓ 13.1 yards

5 Errol is putting photos into albums. Each album has 24 pages for holding photos, and each page can hold 8 photographs. How many photographs could Errol put into 3 photo albums?

Ⓐ 192

Ⓑ 376

Ⓒ 486

Ⓓ 576

6 Kathy answered $\frac{3}{5}$ of the questions on a test correctly. Which of the following is equivalent to $\frac{3}{5}$?

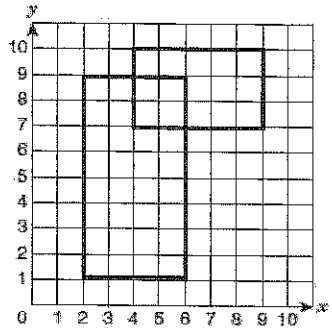
Ⓐ 0.3

Ⓑ 0.35

Ⓒ 0.6

Ⓓ 0.65

7 Which ordered pairs represent a point where the edges of the two rectangles intersect? Select **all** the correct answers.



☐ (8, 6)

☐ (6, 7)

☐ (5, 8)

☐ (4, 10)

☐ (7, 9)

☐ (4, 9)

8 To complete a calculation correctly, Mark moves the decimal place of 420.598 two places to the left. 10

$$420.598 \rightarrow 4.20598$$

Which of these describes the calculation completed?

Ⓐ Dividing by 10

Ⓑ Dividing by 100

Ⓒ Multiplying by 10

Ⓓ Multiplying by 100

9 Camille cooked a cake on high for $1\frac{1}{4}$ hours. She then cooked it for another $\frac{1}{2}$ hour on low. How long did she cook the cake for in all? 11

Ⓐ $1\frac{1}{2}$ hours

Ⓑ $1\frac{3}{4}$ hours

Ⓒ $2\frac{1}{4}$ hours

Ⓓ $2\frac{1}{2}$ hours

10 A play sold $224 worth of tickets. Each ticket cost the same amount. Which of these could be the cost of each ticket? Select **all** the possible answers.

- ☐ $6
- ☐ $8
- ☐ $12
- ☐ $14
- ☐ $16
- ☐ $18

11 A piece of note paper has side lengths of 12.5 centimeters. What is the area of the piece of note paper?

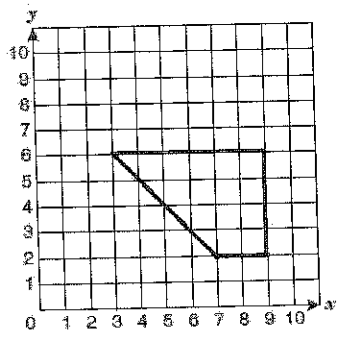
Ⓐ 144.25 square centimeters

Ⓑ 144.5 square centimeters

Ⓒ 156.25 square centimeters

Ⓓ 156.5 square centimeters

12 Cody drew a quadrilateral on a coordinate grid, as shown below.



What are the coordinates of the vertices of the quadrilateral? Write the coordinates below.

(___, ___) (___, ___) (___, ___) (___, ___)

13 Sandy has $12.90. Marvin has $18.50. What is the total value of their money? Write your answer below.

$ _____

14 The top of a desk is 4 feet long and 3 feet wide. Raymond wants to cover the top of the desk with a vinyl sheet. The vinyl sheet is measured in square inches. What is the area of the vinyl sheet that will cover the top of the desk exactly?

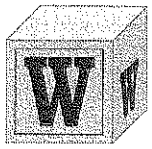
Ⓐ 12 square inches

Ⓑ 144 square inches

Ⓒ 168 square inches

Ⓓ 1,728 square inches

15 A block is in the shape of a cube. If the side length is represented by x, which of these could be used to find the volume of the cube?



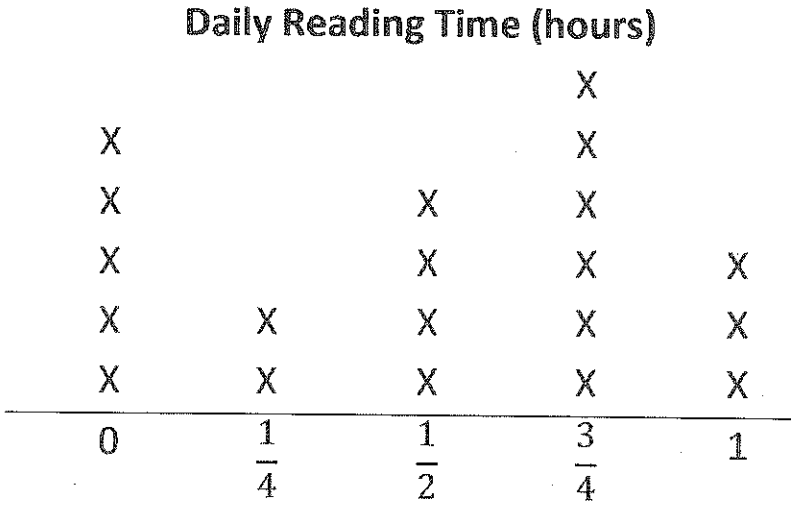
Ⓐ $3x$

Ⓑ $6(x^2)$

Ⓒ $6x$

Ⓓ x^3

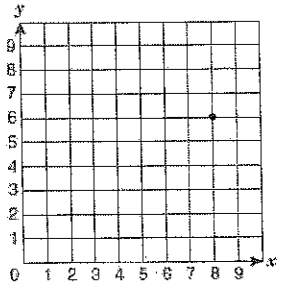
16 Denise made the line plot below to show how long she read for each weekday for 4 weeks.



How long did Denise read for in total over the 4 weeks? Write your answer below.

_____ hours

17 The point below is translated 2 units to the left and 3 units down. What are the coordinates of the point after the translation?



Ⓐ (6, 3)

Ⓑ (6, 9)

Ⓒ (10, 3)

Ⓓ (10, 9)

18 The table below shows the total number of pounds of flour in different numbers of bags of flour.

Number of Bags	Number of Pounds
3	12
5	20
8	32
9	36

Based on the relationship in the table, how much flour is in each bag? Give your answer in pounds and then ounces. Write your answers below.

_____ pounds

_____ ounces

19 The model below is made up of 1-centimeter cubes. Complete the number sentence below to find the volume of the model.

$\square \times \square \times \square = \square$ cm^3

20 Which decimal is plotted on the number line below?

Ⓐ 2.25

Ⓑ 2.3

Ⓒ 2.6

Ⓓ 2.75

END OF PRACTICE SET