

U.S. Traditional Addition

Lesson 1-7

DATE

TIME



Make an estimate. Write a number model to show your thinking. Try to solve each problem using U.S. traditional addition. Compare your answer with your estimate to see whether your answer makes sense.

1
$$\begin{array}{r} 49 \\ + 33 \\ \hline \end{array}$$

Estimate: _____

2 $94 + 47 = \underline{\hspace{2cm}}$

Estimate: _____

3
$$\begin{array}{r} 372 \\ + 489 \\ \hline \end{array}$$

Estimate: _____

4
$$\begin{array}{r} 462 \\ + 949 \\ \hline \end{array}$$

Estimate: _____

5
$$\begin{array}{r} 538 \\ + 928 \\ \hline \end{array}$$

Estimate: _____

Try This

6 $4,674 + 6,053 = \underline{\hspace{2cm}}$

Estimate: _____

- 7 There are 279 boys and 347 girls at a school assembly. How many students are at the assembly?

Estimate: _____ students

Answer: _____ students

Comparing Addition Strategies

Lesson 1-7



DATE

TIME

Estimate $356 + 498$. Write a number model to show your thinking. Then solve using partial-sums addition, column addition, and U.S. traditional addition.



Estimate: _____

Partial-Sums Addition

Column Addition

U.S. Traditional Addition

Which method do you prefer? Why?

- 1 Subtract mentally.
- a. $17 - 7 =$ _____
 - b. $170 - 70 =$ _____
 - c. $15 - 9 =$ _____
 - d. _____ $= 150 - 90$
 - e. $16 - 8 =$ _____
 - f. _____ $= 160 - 80$

- 2 In the number 30,516, what does the 3 stand for? Circle ALL that apply.
- A. 3,000
 - B. 3 [10,000s]
 - C. 30,000
 - D. 300,000

SRB
78-79

- 3 Put these numbers in order from least to greatest.

46,000 64,000
4,600 4,006

- 4 a. Round 81,886 to the nearest . . .
thousand _____
ten-thousand _____
- b. Round 245,197 to the nearest . . .
hundred-thousand _____
ten-thousand _____

SRB
81

SRB
85-87

- 5 **Writing/Reasoning** What do you need to consider when you order the whole numbers in Problem 3?

SRB
81

Grouping by 25s, 5s, and 1s

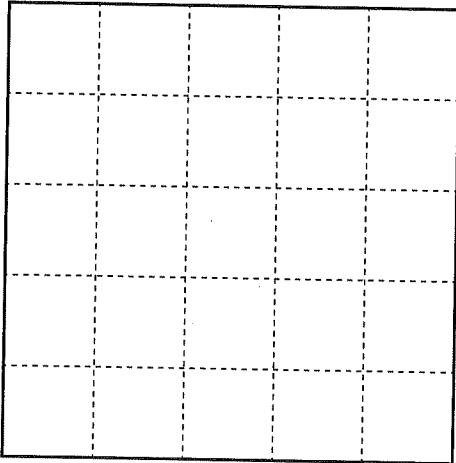
Lesson 1-8

DATE

TIME

At Barbara's Bagel Bakery, Bob packs bagels into boxes that hold 25 bagels, 5 bagels, or 1 bagel.

Box of 25 Bagels



Box of 5 Bagels



Box of 1 Bagel



Bagels come to Bob on a tray. Bob always fills the largest box possible and makes sure each box is full. For each tray of bagels, how many boxes of each size does Bob fill? Complete the table.

Number of Bagels on the Tray	Boxes of 25 Bagels	Boxes of 5 Bagels	Boxes of 1 Bagel
27			
10			
53			
9			

Explain to your partner how you figured out your answers.

1 Subtract mentally.

- a. $11 - 5 =$ _____
 b. $110 - 50 =$ _____
 c. $10 - 6 =$ _____
 d. _____ $= 100 - 60$
 e. $16 - 7 =$ _____
 f. _____ $= 160 - 70$

2 Draw a line connecting each number in standard form with the equivalent number in expanded form.

- | | |
|--------|---|
| 50,306 | 30,000 + 1,000 + 5
or 3 [10,000s] + 1 [1,000s]
+ 5 [1s] |
| 31,005 | 60,000 + 40
or 6 [10,000s] + 4 [10s] |
| 60,040 | 50,000 + 300 + 6
or 5 [10,000s] + 3 [100s]
+ 6 [1s] |

 SRB
80

3 Subtract.

- a.
$$\begin{array}{r} 842 \\ - 521 \\ \hline \end{array}$$
- b.
$$\begin{array}{r} 7,468 \\ - 3,394 \\ \hline \end{array}$$

 SRB
94-101

4 Make an estimate. Write a number model to show your strategy.

- a. $1,459 + 291$
- _____

- b. $681 - 346$
- _____

 SRB
82-89

5 Use a Place-Value Flip Book or chart.

Write the number that has . . .

- 1 in the ones place
 8 in the thousands place
 9 in the ten-thousands place
 0 in the tens place
 6 in the hundred-thousands place
 5 in the hundreds place
- _____ , _____

 SRB
78-79

6 Write $>$, $<$, or $=$ to make each number sentence true.

- a. $16 + 11$ _____ 47
 b. 206 _____ 602
 c. $150 - 50$ _____ 100
 d. $62 + 10 + 10$ _____ $62 - 10 - 10$
 e. $423,726$ _____ $413,999$

 SRB
81

U.S. Traditional Subtraction

Lesson 1-9

DATE

TIME



SRB
82-84,
100-101

Make an estimate. Write a number model to show your thinking. Try to solve each problem using U.S. traditional subtraction. Compare your answer with your estimate to see whether your answer makes sense.

①
$$\begin{array}{r} 58 \\ - 39 \\ \hline \end{array}$$

Estimate: _____

② $94 - 56 = \underline{\hspace{2cm}}$

Estimate: _____

③
$$\begin{array}{r} 600 \\ - 379 \\ \hline \end{array}$$

Estimate: _____

④
$$\begin{array}{r} 836 \\ - 782 \\ \hline \end{array}$$

Estimate: _____

⑤
$$\begin{array}{r} 5,172 \\ - 234 \\ \hline \end{array}$$

Estimate: _____

Try This

⑥
$$\begin{array}{r} 8,004 \\ - 3,506 \\ \hline \end{array}$$

Estimate: _____

- ⑦ The drive to Yuri's grandmother's house is 642 miles. Yuri's family has driven 484 miles so far. How many miles do they have left to drive?

Estimate: _____ miles

Answer: _____ miles

Comparing Subtraction Strategies

Lesson 1-9

DATE

TIME



Estimate $825 - 478$. Write a number model to show your thinking. Then solve using each of the three subtraction methods: counting-up, trade-first, and U.S. traditional subtraction.

Estimate: _____



Counting-Up Subtraction

Trade-First Subtraction

U.S. Traditional Subtraction

Which method do you prefer? Why?

1 Subtract.

a.
$$\begin{array}{r} 876 \\ -441 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 652 \\ -538 \\ \hline \end{array}$$

SRB
94-101

2 Jen's goal is to hike about 200 miles on Wisconsin's state trails. If she hikes 74 miles on Tuscobia, 49 miles on Glacial Drumlin, and 24 miles on Great River, how many more miles will she need to hike to reach her goal? Show your work.

Answer: _____ miles

SRB
83, 92-
93, 100

3 Write $>$, $<$, or $=$ to make each number sentence true.

a. $67 - 10$ _____ 57

b. 11 thousand _____ 11,300

c. $400 + 40 + 10$ _____ $400 + 50$

d. $5,000 - 26$ _____ 5 thousand

SRB
81

4 Solve using U.S. traditional addition.

a.
$$\begin{array}{r} 87 \\ +96 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 239 \\ +285 \\ \hline \end{array}$$

SRB
92-93

5 **Writing/Reasoning** Describe how you used U.S. traditional addition to solve Problem 4a.

SRB
92-93

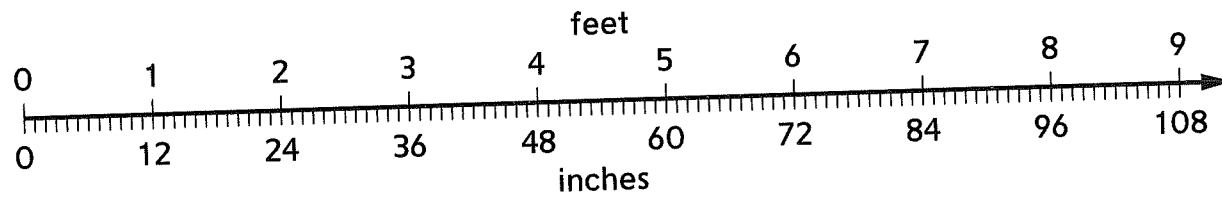
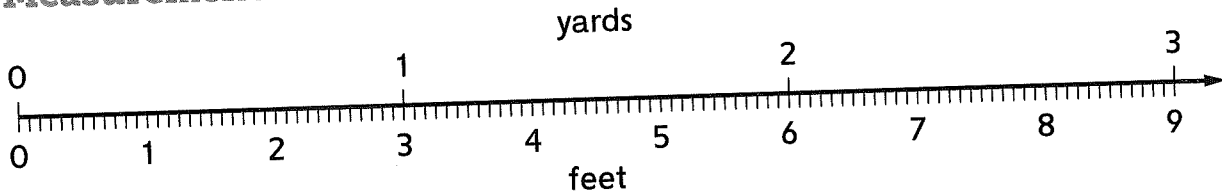
Units of Length

Lesson 1-10

DATE _____

TIME _____

Measurement Scales



Convert.

①

Feet	Inches
1	12
2	
3	
5	

②

Yards	Feet
1	3
2	
4	
5	

③

Feet	Inches
7	
9	
	120
20	

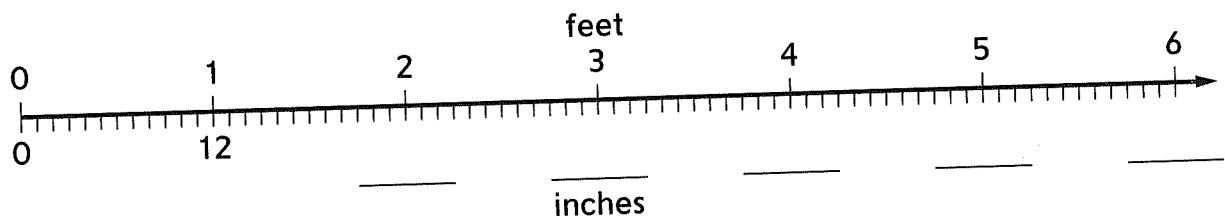
④

Yards	Feet
7	
	27
10	
20	

Solve the problem. Complete the measurement scale to convert.

⑤

An Andean condor is about 4 feet tall. A raven is about 2 feet tall.
What is the combined height of the two birds in inches? _____ inches



- 6 The saltwater crocodile can grow to be 7 yards long. The manatee and the American alligator can each grow to be 5 yards long. What is the combined length of the three animals in feet?

Answer: _____ feet

- 7 The giraffe is the tallest land animal in the world. It can be up to 19 feet tall. The height of the tallest giraffe combined with the height of an African elephant is 35 feet. What is the height of the elephant in inches?

Answer: _____ inches

- 8 On average, a blue whale is 28 yards in length. A North Pacific right whale is 17 yards in length. What is the difference in length between these two whales in feet?

Answer: _____ feet

Try This

- 9 The reticulated python is the longest snake in the world. It can measure up to 33 feet. The Barbados thread snake is the smallest known species of snake. It averages slightly under 4 inches in length. Estimate the difference between the length of the Barbados thread snake and the reticulated python.

Estimate: _____ feet

Explain how you got your answer. _____

Math Boxes

Preview for Unit 2

Lesson 1-10

DATE

TIME

Math Boxes

1 Make an array for

a. $4 * 4$

b. $3 * 6$

SRB
53

2 Multiply mentally.

a. $2 * 1 = \underline{\hspace{2cm}}$

b. $\underline{\hspace{2cm}} = 5 * 0$

c. $\underline{\hspace{2cm}} = 5 * 2$

d. $5 * 4 = \underline{\hspace{2cm}}$

e. $3 * 10 = \underline{\hspace{2cm}}$

3 Fill in the missing numbers.

a. $\underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, 50,$
 $55, 60$

Rule: $\underline{\hspace{2cm}}$

b. $\underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, 22, 24,$
 $\underline{\hspace{2cm}}$

Rule: $\underline{\hspace{2cm}}$

c. $\underline{\hspace{2cm}}, \underline{\hspace{2cm}}, 42, \underline{\hspace{2cm}},$
 $\underline{\hspace{2cm}}, 60$

Rule: $\underline{\hspace{2cm}}$

4 Gail was counting geese as they flew over her field. The first group contained 27 geese. The second group had 7 more geese than the first group.

Which number model(s) show(s) how many geese are in the second group? Select ALL that apply.

$27 - 7 = g$

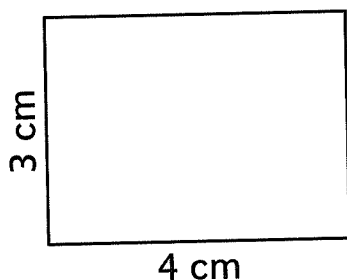
$27 + 7 = g$

$27 = g + 7$

$g = 27 + 7$

SRB
37, 47

5 Find the area of the rectangle.



Area: $\underline{\hspace{2cm}}$ square cm

SRB
202-204

6 Josephine makes and sells pottery vases. If she charges \$9 per vase and she sells 6 vases one week and 7 vases the next, how much will she earn? Show your work.

Estimate: \$ $\underline{\hspace{2cm}}$

Answer: \$ $\underline{\hspace{2cm}}$

SRB
83

Points, Line Segments, Lines, and Rays

Lesson 1-11

DATE

TIME

Use a straightedge to draw the following:



1 a. Draw and label line segment \overline{RT} .

b. What is another name for \overline{RT} ? _____

2 a. Draw and label line \overleftrightarrow{BN} . Draw and label a point T on it.

b. What are two other names for \overleftrightarrow{BN} ? _____

3 a. Draw and label ray \overrightarrow{SL} . Draw and label a point R on it.

b. What is another name for \overrightarrow{SL} ? _____

c. Under ray \overrightarrow{SL} , draw and label ray \overrightarrow{XM} so it is parallel to ray \overrightarrow{SL} .

4 A • • B

D • • C

a. Using points A , B , C , and D , create a shape that has 2 pairs of parallel line segments.

b. Name the parallel line segments. _____

- 1 Kenji is following a 22-week training schedule to prepare for a marathon. The last four weeks call for these weekly running totals: 58 km, 45 km, 37 km, and 29 km. How far will Kenji run in the last four weeks of training? Show your work.

Estimate: _____

Answer: _____ km

SRB
92-93

SRB
226-227

- 3 Write the number in standard form.
- a. $9 [100\text{s}] + 3 [1\text{s}] =$ _____
- b. $5 [1,000\text{s}] + 4 [10\text{s}] =$ _____
- c. $4 [10,000\text{s}] + 5 [1,000\text{s}] + 6 [100\text{s}] + 9 [1\text{s}] =$ _____
- d. $2 [100,000\text{s}] + 6 [1,000\text{s}] + 7 [100\text{s}] + 4 [1\text{s}] =$ _____

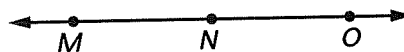
SRB
80

SRB
226-227

- 2 Draw and label line QR (\overleftrightarrow{QR}). Draw point S on it.

What are two other names for line QR ?

- 4 Name as many rays as you can in the figure below.



- 5 **Writing/Reasoning** Explain how you used your estimate to see if your answer to Problem 1 was reasonable.

SRB
83

Angles

Lesson 1-12

DATE _____

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SRB
228-229,
233

1 Draw $\angle BAC$. What is another name for $\angle BAC$? _____

C •

2 What is the vertex of $\angle BAC$? Point _____

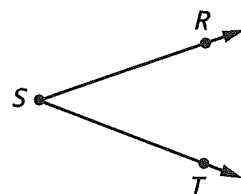
A •

B •

3 a. What type of angle is angle BAC in Problem 1? _____

b. How do you know? _____

4 Feng said the name of this angle is $\angle SRT$. Is he right? Explain.

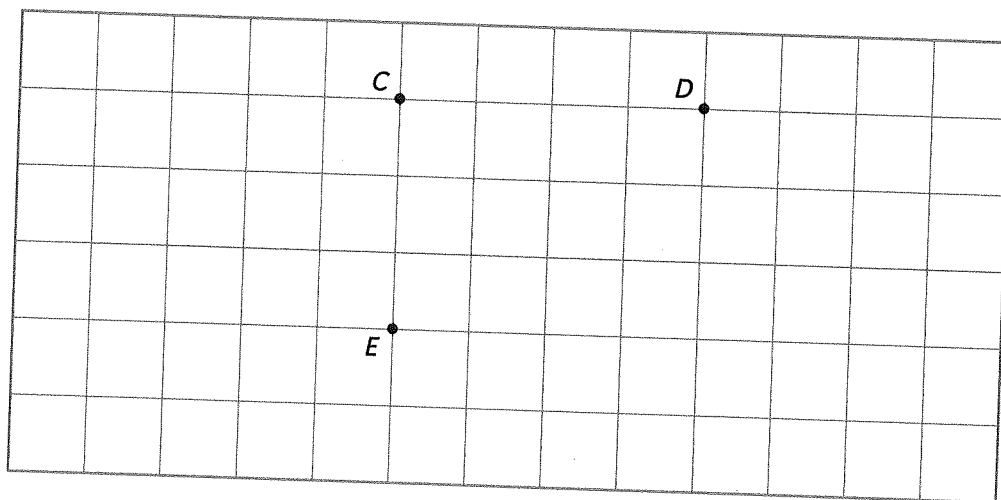


5 Use the points shown on the grid below and a straightedge to draw triangle CDE .

a. What type of angle is angle DCE ? _____

b. What type of triangle is triangle CDE ? _____

c. Name the perpendicular line segments. _____



1 Subtract using U.S. traditional subtraction.

a.
$$\begin{array}{r} 334 \\ - 238 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 881 \\ - 436 \\ \hline \end{array}$$

SRB
100-101

2 Eric's car travels about 256 miles on a full tank of gas. With the gas tank full, Eric drove 66 miles to visit cousins. Then he drove 78 miles to visit Grandma. How many more miles can Eric drive before he runs out of gas? Show your work.

Answer: _____ miles

SRB
83, 92-
93, 100

3 Write $>$, $<$, or $=$ to make each number sentence true.

a. $55,699$ _____ $45,609$

b. $67,749$ _____ $66,749$

c. $858,193$ _____ $808,192$

d. 2 thousand _____ 20 hundred

e. $208,775$ _____ 2 million

SRB
83

4 Add using U.S. traditional addition.

a.
$$\begin{array}{r} 354 \\ + 589 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 809 \\ + 693 \\ \hline \end{array}$$

SRB
92-93

5 **Writing/Reasoning** Explain how you write Problem 4b in expanded form.

SRB
80

1 In Kendra's city, most blocks are about 328 feet long. If Kendra runs 3 blocks before she rests, about how many feet will she have run?

- (A) 656 feet
- (B) 1,084 feet
- (C) 3,328 feet
- (D) 984 feet
- (E) 331 feet

SRB
92-93

SRB
226-227

3 a. $600,000 + 5,000 + 700 + 8$ is the expanded form for what number?

b. $3,000,000 + 200,000 + 6,000 + 40 + 7$ is the expanded form for what number?

SRB
80

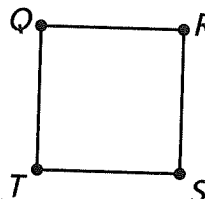
SRB
226-227

2 Draw and label line AB .

Draw point C on it.

What are two other names for line AB ?

4 Name as many line segments as you can in the figure below.



5 **Writing/Reasoning** Describe how you could use U.S. traditional addition to solve Problem 1.

SRB
92-93

Finding the Perimeter

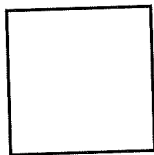
Lesson 1-13

DATE

TIME



Math Message



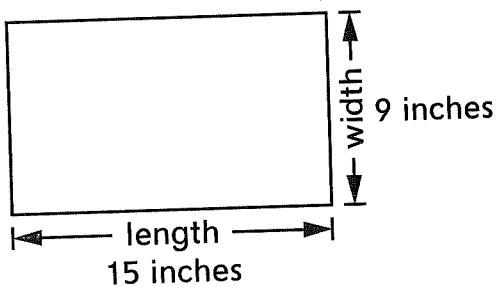
2 feet

Find the perimeter of the square. _____ feet

How did you find the perimeter? _____

How many inches is that? _____ inches. Explain how you converted from feet to inches.

1



What is the perimeter? _____ inches

Write an equation for the perimeter of the rectangle.

Equation: _____ inches

2

Measure the lengths and widths of your journal and 2 different rectangular objects in your classroom. Measure to the nearest inch. Record the measurements. Use the measurements to find the perimeter of each object.

Object Measured	Length	Width	Formula	Perimeter
<i>Math Journal</i>				

Finding the Perimeter (continued)

Lesson 1-13

DATE

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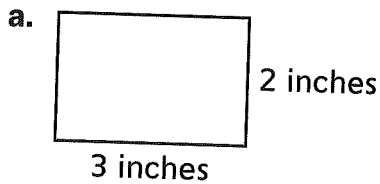


Perimeter Formulas for Rectangles:

$$p = l + l + w + w \quad p = 2l + 2w \quad p = 2 * (l + w)$$

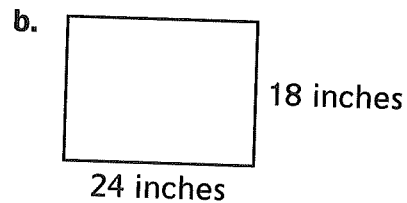
SRB
200

3 Use a formula to find the perimeters of the rectangles.



Equation: _____

Perimeter: _____ inches



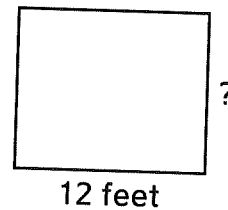
Equation: _____

Perimeter: _____ inches

4 Jerry wants to build a rectangular vegetable garden with a fence around it. He wants the garden to be 8 feet long and 4 feet wide. Sketch his garden. Find the perimeter. Show your work.

Perimeter: _____ feet

5 Moonja's parents are building a deck. A diagram is to the right. They want the perimeter to be 44 feet. One side must be 12 feet long. What is the measurement of the width?



Width: _____ feet

6 Draw a rectangle with a perimeter of 16 centimeters. Label the lengths of the sides.

Math Boxes

Preview for Unit 2

Lesson 1-14

DATE

TIME

Math Boxes

1 Make 2 different arrays for 6.

SRB
53

2 Multiply mentally.

a. $8 * 1 = \underline{\hspace{2cm}}$

b. $\underline{\hspace{2cm}} = 9 * 0$

c. $\underline{\hspace{2cm}} = 5 * 6$

d. $5 * 50 = \underline{\hspace{2cm}}$

e. $7 * 10 = \underline{\hspace{2cm}}$

3 Fill in the missing numbers.

a. 16, 20, 24, $\underline{\hspace{2cm}}$,

$\underline{\hspace{2cm}}$, $\underline{\hspace{2cm}}$

Rule: $\underline{\hspace{2cm}}$

b. 15, $\underline{\hspace{2cm}}$, 21, $\underline{\hspace{2cm}}$,

27, $\underline{\hspace{2cm}}$

Rule: $\underline{\hspace{2cm}}$

c. $\underline{\hspace{2cm}}$, $\underline{\hspace{2cm}}$, 30,

$\underline{\hspace{2cm}}$, $\underline{\hspace{2cm}}$, 60

Rule: $\underline{\hspace{2cm}}$

4 The height of Angel Falls, the tallest waterfall, is 240 meters more than Yosemite Falls in California. Tugela Falls, the second highest waterfall, is 31 meters shorter than Angel Falls. If Yosemite Falls is 739 meters high, how high is Tugela Falls?

A. 979 meters

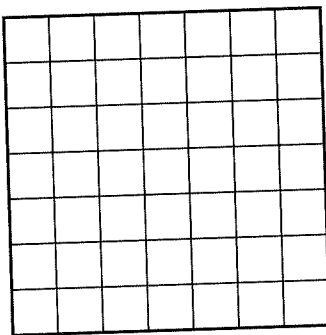
B. 948 meters

C. 1,010 meters

D. 468 meters

SRB
47, 83

5 Shade tiles in the grid to make an array for 6×6 . How many tiles did you shade?



SRB
202-204

6 On average, a painter can cover about 300 square feet with 1 gallon of paint. If the painter has 6 gallons of paint in his van and 5 gallons in his store, about how many square feet can he cover?

Estimate: $\underline{\hspace{2cm}}$ square feet

Answer: $\underline{\hspace{2cm}}$ square feet

SRB
83