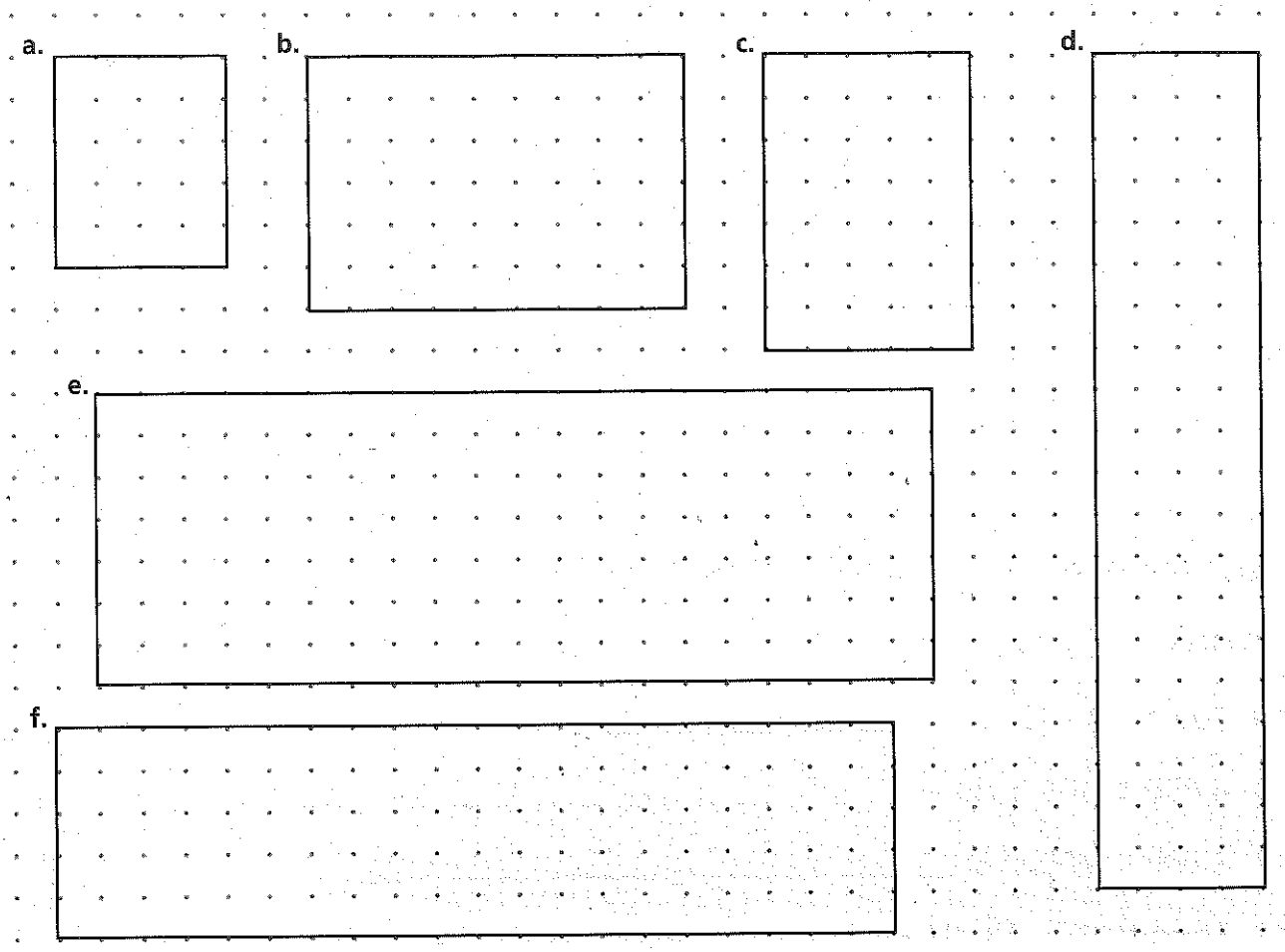
2-1

Homework

Name _____ Date _____

1. Label the sides of each rectangle.



2. Write the equation representing the area of each rectangle shown above.

a. _____ b. _____ c. _____

d. _____ e. _____ f. _____

Find the area (in square units) of a rectangle with the given dimensions.

3. 3×5 _____ **4.** 3×50 _____ **5.** 30×5 _____

2-2

Homework

Name _____ Date _____

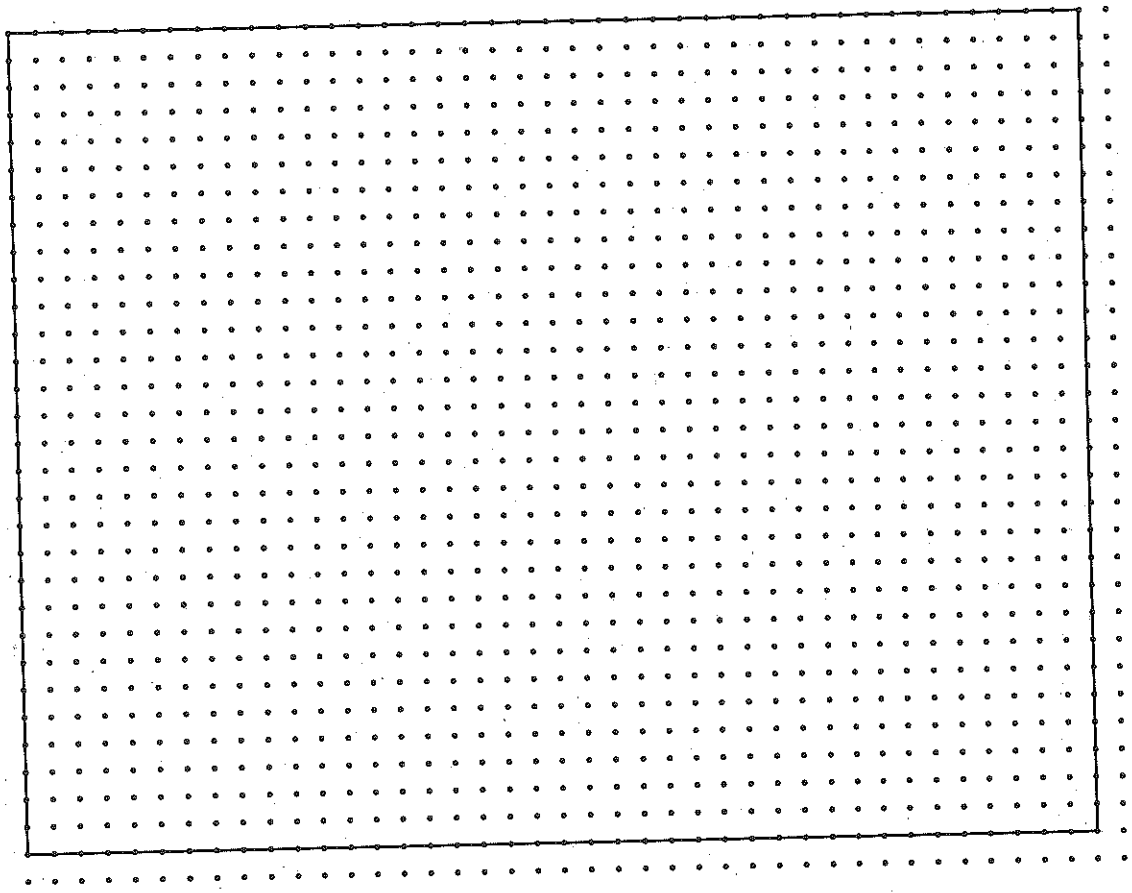
Solve each problem.

1. 10 × _____ = 3 tens

2. 10 × 6 tens = _____

Follow the directions.

3. Divide the 30 × 40 rectangle into 10-by-10 squares of 100 to help find the area.



4. Complete the steps to factor the tens.

30 × 40 = (_____ × 10) × (_____ × 10)

= (_____ × _____) × (10 × 10)

= _____ × 100

= _____

5. What is the area of the 30 × 40 rectangle, in square units?

_____

2-3

Homework

Name _____ Date _____

Find each product by factoring the tens. Draw rectangles if you need to.

1. 6 × 2, 6 × 20, and 6 × 200

_____

_____

2. 4 × 8, 4 × 80, and 4 × 800

_____

_____

3. 5 × 5, 5 × 50, and 5 × 500

_____

_____

4. 5 × 9, 50 × 9, and 500 × 9

_____

_____

5. 6 × 5, 60 × 5, and 60 × 50

_____

_____

6. 7 × 6, 70 × 6, and 70 × 60

_____

_____

On a sheet of grid paper, draw two different arrays of connected squares for each total. Label the sides and write the multiplication equation for each of your arrays.

7. 18 squares

_____

_____

8. 20 squares

_____

_____

9. 24 squares

_____

_____

2-4

Homework

Name _____ Date _____

Draw a rectangle. Find the tens product, the ones product, and the total product. The first one is done for you.

1. 5×39

$39 = 30 + 9$

5	$5 \times 30 = 150$	$5 \times 9 = 45$

$150 + 45 = 195$

2. 7×32

3. 9×54

4. 3×47

Solve each problem.

Show your work.

5. Maria's flower garden is 14 feet long and 3 feet wide. How many square feet is her garden?

_____

6. Maria planted 15 trays of flowers. Each tray had 6 flowers in it. How many flowers did she plant?

_____

7. Write and solve a multiplication word problem about your family.

_____

_____

_____

_____

_____

2-5

Homework

Name _____ Date _____

Estimate each product. Solve to check your estimate.

1. 4×26

_____

_____

2. 5×63

_____

_____

3. 7×95

_____

_____

4. 4×84

_____

_____

5. 2×92

_____

_____

6. 3×76

_____

_____

Estimate the answers. Then solve each problem. *Show your work.*

7. The Bicycling Club is participating in a cycling event. There are 65 teams registered for the event. Each team has a total of 8 cyclists. How many cyclists will participate in the event?

_____

8. The theater group is making costumes for their play. There are 9 costume changes for each of the 23 performers. How many costumes does the theater group need?

_____

9. The town library shows 6 different books each day in the display case. The library is open 27 days in one month. How many books does the library need for the display?

_____

Write and solve a multiplication word problem.

10. _____

_____

_____

_____

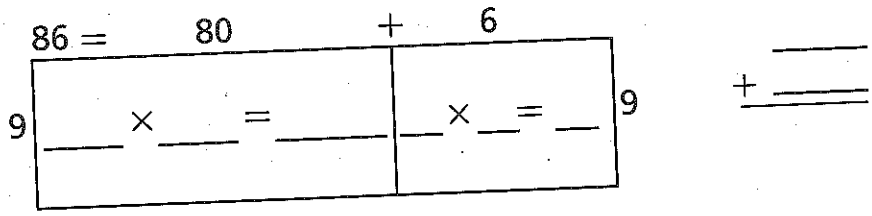
2-6

Homework

Name _____ Date _____

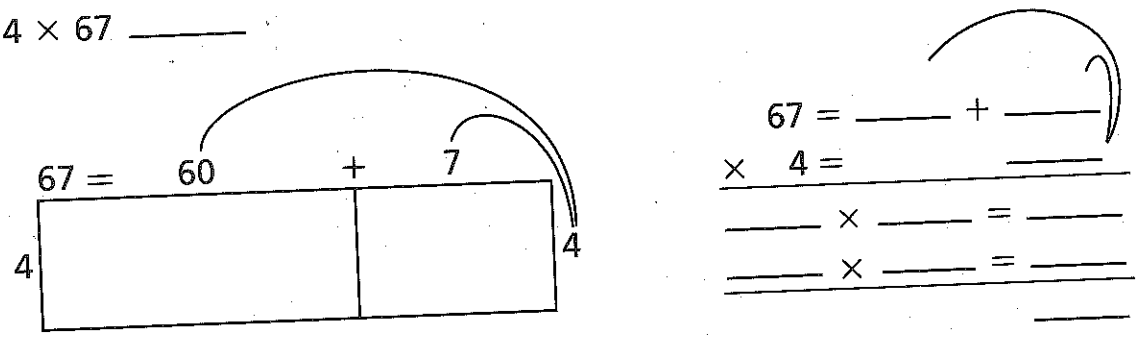
Use the Place Value Sections Method to solve the problem. Complete the steps.

1. 9×86 _____



Use the Expanded Notation Method to solve the problem. Complete the steps.

2. 4×67 _____



Use any method to solve. Draw a rectangular model to represent the problem.

Show your work.

3. Natalia read her new book for 45 minutes each day for one week. How many minutes did she read after 7 days?

_____

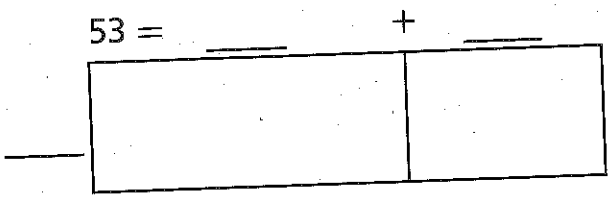
2-7

Homework

Name _____ Date _____

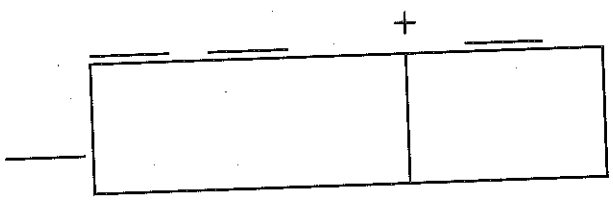
Use the Algebraic Notation Method to solve each problem. Complete the steps.

1. 7 · 53 _____



7 · 53 = _____ · (_____ + _____)
= 350 + 21
= 371

2. 4 · 38 _____



4 · 38 = _____ · (_____ + _____)
= _____ + _____
= _____

Draw an area model and use the Algebraic Notation Method to solve the problem.

Show your work.

3. Mr. Henderson needs to get plywood to build his flatbed trailer. The flatbed is 8 feet by 45 feet. What is the area of the flatbed Mr. Henderson needs to cover with plywood?

_____

2-8

Homework

Name _____ Date _____

Use any method to solve. Sketch a rectangle model, if you need to.

1. 7×62 _____

2. 6×63 _____

3. 6×82 _____

4. 57×7 _____

5. 5×76 _____

6. 4×65 _____

7. 7×83 _____

8. 36×9 _____

9. 27×8 _____

Show your work.

Solve each problem.

10. 94 people are sitting down to a fancy six-course meal. The first course is soup, which only needs a spoon. The rest of the courses each need fresh forks. How many forks will be used?

_____

11. Leo uses plastic letters to make signs. A chain store asks Leo to put signs in front of their 63 stores that say "SALE: HALF PRICE ON ALL DRESSES." How many plastic "S" letters will Leo need?

_____

2-9

Homework

Name _____ Date _____

Solve, using any numerical method. Use rounding and estimating to see if your answer makes sense.

1. 35×9

2. 79×5

3. 56×3

4. 94×2

5. 68×4

6. 27×8

7. 82×6

8. 43×7

Show your work.

Solve each problem.

9. Describe how you solved one of the exercises above. Write at least two sentences.

_____

_____

_____

_____

_____

10. Mariko wrote the full alphabet (26 letters) 9 times. How many letters did she write?

_____

11. Alan has 17 packs of bulletin-board cutouts. Each one contains 9 shapes. How many shapes does he have altogether?

_____

2-10

Homework

Name _____ Date _____

Sketch rectangles and solve by any method that relates to your sketch.

1. 3×687 _____

2. 8×572 _____

3. 5×919 _____

4. 6×458 _____

5. A parking garage charges $5 per vehicle to park. The garage has 327 spaces for vehicles. If the garage is full, how much money does garage make? *Show your work.*

_____

6. Susie's car can go about 342 miles on one tank of gasoline. She has filled her tank 4 times this month. About how many miles did Susie travel this month?

_____

7. Zach filled his albums with 134 pages of trading cards. Each page holds 9 trading cards. How many trading cards does Zach have in his albums?

_____

8. Write and solve a multiplication word problem involving a three-digit number.

_____

_____

_____

2-11

Homework

Name _____ Date _____

Cross out the extra numerical information and solve.

Show your work.

1. A gymnastic meet is 2 hours long. It has 8 competitors and each competes in 4 events. How many events will be scored?

_____

2. George makes $20 doing lawn work for 4 hours each week. He wants to buy a $2,500 used car from his grandmother. He has been saving this money for 30 weeks. How much has he saved?

_____

Tell what additional information is needed to solve the problem.

3. Michelle is saving $20 each week for the bike of her dreams. How long until she can purchase her bike?

_____

4. A teacher sees a sale on packages of pencils. She wants to give each of her students a pencil. How many packages should she buy?

_____

Solve each problem and label your answer. Write hidden questions if you need to.

5. There are 18 windows on each side of a rectangular building. It takes the window washer 3 minutes to wash each window. How many minutes will it take to finish the job?

_____

6. The school office prints a newsletter every month that uses 2 pieces of paper. They make 35 copies for each room. How many pieces of paper do they need to print copies for 10 rooms?

_____

2-12

Name _____ Date _____

Homework

Sketch an area model for each exercise. Then find the product.

1. 74×92 _____

2. 65×37 _____

3. 55×84 _____

4. 49×63 _____

5. 34×52 _____

6. 24×91 _____

7. Write a word problem for one exercise above.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2-13

Homework

Name _____ Date _____

Multiply using any method. If you use an area model to multiply, show your sketch.

1. 45×79 _____

2. 88×29 _____

3. 74×57 _____

4. 84×68 _____

Mr. Gomez's class is learning about multiplication. The class wants to see what multiplications they can find in their school. Solve each problem.

5. The class counts 37 tiles across the front of their room and 64 tiles down one side. How many floor tiles are in their classroom?

_____

6. The back of their classroom is a brick wall. Down one side, they count 26 rows of bricks. Across the bottom, they count 29 bricks. How many bricks make up the wall?

_____

7. In the school, there are 3 classrooms for each grade: kindergarten, 1, 2, 3, 4, 5, and 6. Each classroom has 32 lockers. How many lockers are there in the school building?

_____

8. The school auditorium has 69 rows of seats. Each row has 48 seats across. If 6,000 people want to see the school talent show, how many times do the students have to do the show?

_____

Write two multiplication word problems of your own. Then solve each problem.

9. _____

_____

_____

_____

_____

10. _____

_____

_____

_____

_____

2-14

Homework

Name _____ Date _____

Solve each multiplication problem using any method. Use rounding and estimation to check your work.

1. 45×61 _____

2. 24×56 _____

3. 83×27 _____

4. 39×48 _____

5. 36×96 _____

6. 63×87 _____

7. 58×79 _____

8. 15×92 _____

9. 33×43 _____

10. 76×29 _____

11. 69×63 _____

12. 84×23 _____

2-15 Name _____ Date _____

Homework

Solve using any method and show your work.
Check your work with estimation.

1. 55 × 64 _____

2. 42 × 67 _____

3. 59 × 32 _____

4. 78 × 44 _____

5. 62 × 23 _____

6. 53 × 28 _____

7. 71 × 35 _____

8. 22 × 66 _____

Solve. *Show your work.*

9. Keesha walks 12 blocks to school every day. One day, she counts 88 sidewalk squares in one block. If each block has the same number of sidewalk squares, how many squares does Keesha walk on as she walks *to* and *from* school each day?

_____

10. The Card Collector's Club is having a meeting. Each member brings 25 sports cards to show and trade. If 35 members attend, how many cards do they bring altogether?

_____

11. On a separate sheet of paper, write and solve your own multiplication word problem.

_____

2-16

Name _____ Date _____

Homework

Sketch a rectangle for each problem and solve using any method that relates to your sketch.

1. $8 \times 6{,}000$

_____

2. $6 \times 3{,}542$

_____

3. $7 \times 3{,}124$

_____

4. $5 \times 7{,}864$

_____

Show your work

5. A school is participating in a pull tab program to raise money for a local organization. The school puts 1,295 pull tabs in each bag. The school has 7 bags of pull tabs. How many pull tabs has the school collected?

_____

6. A dance company has scheduled 4 performances at a theater. The theater has 2,763 seats. Every ticket has been sold for each of the performances. How many tickets were sold in all?

_____

7. An amusement park has about 3,600 visitors each day. About how many visitors does the amusement park have in one week?

_____

2-17 Name _____ Date _____

Homework

On a separate sheet of paper, sketch a rectangle for each problem and solve using any method. Round and estimate to check your answer.

1. $5 \times 4{,}751$ _____

2. $7 \times 6{,}000$ _____

3. $6 \times 5{,}214$ _____

4. $8 \times 3{,}867$ _____

5. Describe the steps you used for one of your solutions to Exercises 1–4.

_____

_____

A fourth grade class is counting the supplies in the school's art closet. Help them to finish their count. *Show your work.*

6. They have 6 rolls of white craft paper. The paper on the rolls is 1,275 feet long. How many feet of craft paper do they have altogether?

_____

7. They counted 592 boxes of color pencils and 468 boxes of markers. If each box holds 8 pencils or markers, how many color pencils and markers do they have altogether?

_____

8. They found 9 boxes of glass beads. There are 1,376 beads per box. How many glass beads do they have in all?

_____

9. They found 7 cases of sketching paper. If each case has 2,500 sheets of paper, how many sheets of sketching paper do they have in all?

_____

2-18

Homework

Name _____ Date _____

Solve using any method and show your work. Check your work with estimation.

1. 6×88

2. 62×32

3. $3 \times 3{,}719$

4. $\begin{array}{r} 63 \\ \times\ 4 \\ \hline \end{array}$

5. $\begin{array}{r} 523 \\ \times\ 8 \\ \hline \end{array}$

6. $\begin{array}{r} 39 \\ \times 19 \\ \hline \end{array}$

7. $\begin{array}{r} 84 \\ \times 47 \\ \hline \end{array}$

8. $\begin{array}{r} 2{,}858 \\ \times\ 9 \\ \hline \end{array}$

9. $\begin{array}{r} 541 \\ \times\ 6 \\ \hline \end{array}$

Solve.

10. Mr. Jackson goes on vacation for 22 days. He pays $17 each day he is gone for Holly's Home Service to get the mail, walk the dog, and water the plants. How much does Mr. Jackson pay Holly's Home Service for the time he is on vacation?

11. A contractor needs to know the area of a sidewalk that is 2,381 feet long and 7 feet wide. What is the area of the sidewalk?

2-19

Homework

Name _____ Date _____

Solve using any method and show your work. Check your work with estimation.

1. 3×45

2. 32×82

3. $9 \times 2{,}477$

4. $\begin{array}{r} 86 \\ \times\ 4 \\ \hline \end{array}$

5. $\begin{array}{r} 419 \\ \times\ 6 \\ \hline \end{array}$

6. $\begin{array}{r} 76 \\ \times\ 39 \\ \hline \end{array}$

7. $\begin{array}{r} 23 \\ \times\ 95 \\ \hline \end{array}$

8. $\begin{array}{r} 6{,}965 \\ \times\ 8 \\ \hline \end{array}$

9. $\begin{array}{r} 746 \\ \times\ 5 \\ \hline \end{array}$

Solve.

10. Simon makes an array that is 47 units wide and 33 units long. What is the area of Simon's array?

11. A farmer plants vegetables in rows. He plants 36 rows of carrots with 13 carrot seeds in each row. How many carrot seeds did the farmer plant?