Name _____   Date _____

Represent the following problem by drawing disks in the place value chart.

1. To solve 30 × 60, think:

   (3 tens × 6) × 10 = **18 hundreds** = 1,800

   30 × (6 × 10) = **1,800**

   30 × 60 = **1,800**

Hundreds	Tens	Ones

2. Draw an area model to represent 30 × 60.
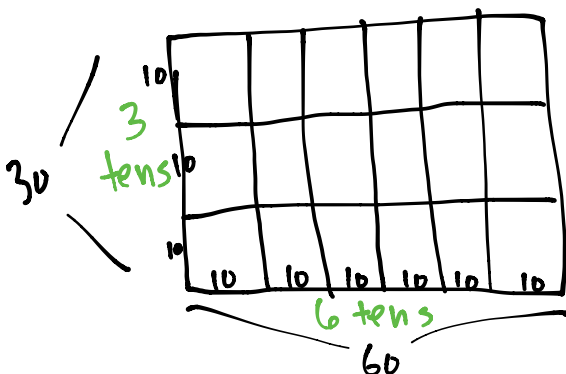
$$30 \times 60 = 3 \text{ tens} \times 6 \text{ tens}$$
$$= 18 \text{ hundreds}$$
$$= 1,800$$

3 tens × 6 tens = **18 hundreds** = 1,800

3. Draw an area model to represent 20 × 20.
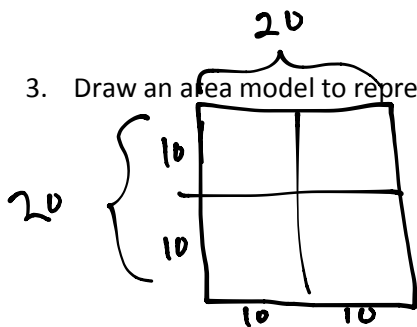
2 tens × 2 tens = **4** **hundreds**

20 × 20 = **400**

Lesson 6:   Multiply two-digit multiples of 10 by two-digit multiples of 10 with the area model.

Date: 8/28/13

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4. Draw an area model to represent 40 × 60.

40 × 60
4 tens × 6 tens
24 hundreds

40   60

or

40

60
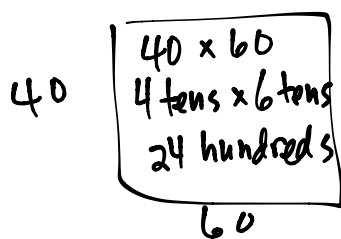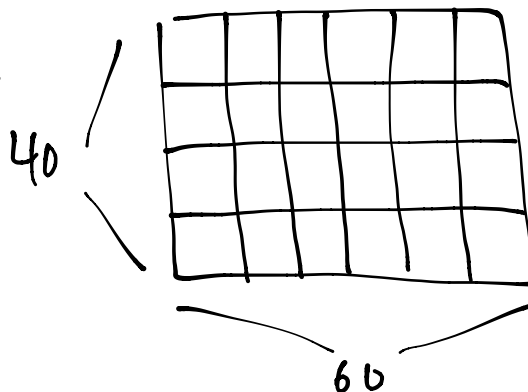
4 tens × 6 tens = 24 hundreds

40 × 60 = 2,400

Rewrite each equation in unit form and solve.

5. 50 × 20 = 1,000

    5 tens × 2 tens = 10 hundreds

6. 30 × 50 = 1,500

    3 tens × 5 tens = 15 hundreds

7. 60 × 20 =

    6 tens × 2 tens = 12 hundreds

           = 1,200

8. 40 × 70 =

    4 tens × 7 tens = 28 hundreds

           = 2,800

COMMON CORE

Lesson 6:   Multiply two-digit multiples of 10 by two-digit multiples of 10 with the area model.

Date: 8/28/13

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9. There are 60 seconds in a minute and 60 minutes in an hour. How many seconds are in one hour?

60×60

$6\text{ tens} \times 6\text{ tens} = 36\text{ hundreds}$

$= 3,600$

3,600 seconds in one hour

10. To print a comic book, 50 pieces of paper are needed. How many pieces of paper are needed to print 40 comic books?

50×40

$= 5\text{ tens} \times 4\text{ tens}$

$= 20\text{ hundreds}$

$= 2,000$

2,000 pieces of paper are needed

Lesson 6: Multiply two-digit multiples of 10 by two-digit multiples of 10 with the area model.

Date: 8/28/13

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