(Recommended points)

Grade 4: Unit 5 Pre-Test   Key

Use the partial product method to multiply. (Show your work)   4.NBT.5
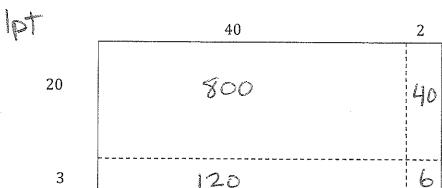
1pt

1) 35 x 4 = 140
30 ^ 5

30 x 4 = 120
5 x 4 = +20
———
140

2) 5 x 632 = 3,160
1pt

5 x 600 = 3000
5 x 30 = 150
5 x 2 = + 10
———
3160

3) 24 x 38 = 912
1pt

20 x 30 = 600
4 x 30 = 120
20 x 8 = 160
4 x 8 = + 32
———
912

Sukna used an area model to show how she multiplied 23 x 42.   4.NBT.5

4) Write numbers in each section of the area model, then write the product to complete the equation.

1pt

	40	2
20	800	40
3	120	6

800
120
40
+ 6
———
966

23 x 42 = __966__

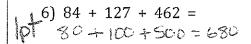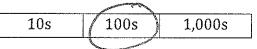2pt 5) Explain how your model shows 23 x 42.   4.NBT.5

The area model above breaks (decomposes) each number by place value so you can multiply smaller parts then add them together to find the product.

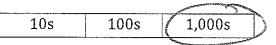**Estimate whether the answer will be in the tens, hundreds, or thousands.**
Circle the correct box.

4.NBT.3

1pt 6) 84 + 127 + 462 =
$80 + 100 + 500 = 680$

10s	100s	1,000s

7) 15 x 36 =
1pt $20 \times 40 = 800$

10s	100s	1,000s

8) 62 x 44 =
1pt $60 \times 40 = 2400$

10s	100s	1,000s

9) **Find two numbers that may be rounded and added together to make 40.**

4.NBT.3

Ans. will vary
1pt

Ex. __24__ , __23__

10) Explain your thinking.

2pt Both of the numbers I chose are between 20 and 30 but they are closer to 20. The sum of $20 + 20 = 40$

(Response will vary based on the numbers chosen)

A child sleeps an average of 9 hours per day. How many hours does a child sleep during a 5 week time period?   4.OA.3

1pt

11) Number model: $(9 \times 7) \times 5$

1pt

12) Solve and show your work.

$9 \times 7 = 63$

63×5
$60 \quad 3$

$60 \times 5 = 300$
$3 \times 5 = \underline{\quad 15}$
$\qquad 315$

_315_ hours

In the United States, there is an average of 29,000 commercial flights in the sky each and every day.   (30,000)   4.OA.3

1pt

13) About how many commercial flights are in the sky in one week? __210,000__

1pt

14) About how many commercial flights are in the sky in two weeks? __420,000__

15) Are more or less than a million commercial flights flying in the sky in 4 weeks?

3pt.   __less than a million__

Explain your thinking.

I rounded 29,000 to 30,000. In two weeks, approximately 420,000 flights are in the sky. I doubled that number to find out how many flights there were in 4 weeks. It is approximately 840,000. Less than a million.