4th Grade Unit 1: Multiplication (Form A)

Name _____   Date _____

1. Find the product of 54 and 9.

2. A blue scarf costs $3. A red scarf costs 5 times as much. How much does the red scarf cost? Which number sentence could be used to show how much the red scarf costs?

   a. *b = 3 x r*
   b. *r = 5 x b*
   c. *b = 5 x r*
   d. *r = 3 x b*

   How much does the red scarf cost?

3. Solve:

   417
   x 8

4. Solve for 4 x 6 by drawing a rectangular array.

5. A blank area model has been drawn below. Complete the area model for the multiplication expression 254 x 4.
   Hint: 254 x 4 is the same thing as (200 + 50 + 4) x 4

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6. What is ten times more than two thousand, five hundred, forty-six?

_____

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7. Kim baked 4 times as many cookies as Nancy. If Nancy baked 12 cookies, how many did Kim bake? Show the number sentence with your answer.

Number Sentence: _____
Kim baked _____ cookies.

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8. What is the product of 8 and 235?

a. 320
b. 1,644
c. 1,880
d. 1,940

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9. Thomas is five years old. His mom is eight times older. How old is Thomas's mom?
Write an equation and solve.

_____ years old

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10. Your class is collecting bottled water for a service project. The goal is to collect 100 bottles of water. On the first day, Max brings in 4 packs with 6 bottles in each pack. Sarah wheels in 6 packs with 8 bottles in each pack. About how many bottles of water still need to be collected? *Bonus: How many additional six-packs and how many additional eight-packs might your class collect to meet their goal?*

About _____ bottles of water; _____ 6-packs, _____ 8-packs

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11. The city of Buford has a population of 12,252, and Dacula has 7,799 fewer people. About how many people live in Dacula?

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12. Which number sentence is NOT true?

a. 63 X 6 = 6 x 63
b. (30 x 9) x 7 = 30 x (9 x 7)
c. 304 x 5 = (300 x 5) x (4 x 5)
d. 8 x 650 = (8 x 600) + (8 x 50)

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13. Solve: 83 X 44 =_____

14. Find the product of 63 and 72.

15. Which problem does NOT have a product of 1,620?

   a. 54 X 30
   b. 81 X 20
   c. 42 X 35
   d. 45 X 36

16. Over the past 7 days, Nancy has baked 68 pizzas per day at her niece's pizza shop. How many pizzas did Nancy bake in all?

   a. 75 pizzas
   b. 116 pizzas
   c. 474 pizzas
   d. 476 pizzas

17. It is 600 miles from Georgia to Ohio. You travel 267 miles on the first day, 194 miles on the second day and 34 miles on the third day. How many more miles will you need to travel to reach Ohio?

18. Each student in Danny's class uses 4 pencils per month, even in the summer. There are 26 students in Danny's class. How many pencils do the students use in one year? (Remember: 1 year = 12 months)

19. *Use the Base 10 Grid Paper to draw a model for the multiplication problem. Use the model to find the answer.*
         24 X 28=_____
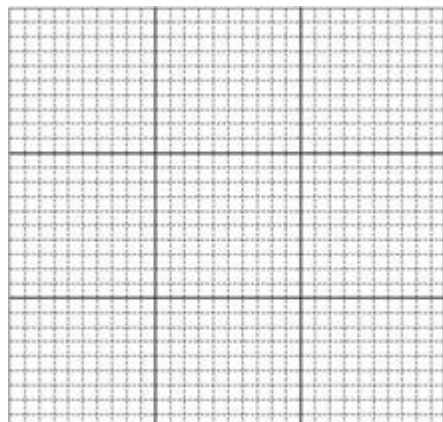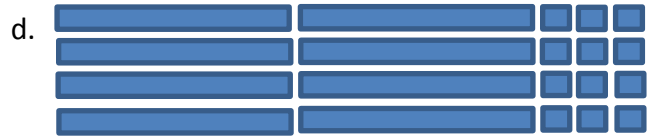
Name _____ **Date** _____

20. Which model does NOT represent the problem 33 x 4?
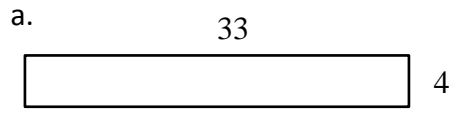
a.
33

4

c.

33   33   33   33

b.

+

30 x 4   3 x 4

d.

21. *Use the Base 10 Grid Paper to draw a model for the multiplication problem. Use the model to find the answer.*

23 X 18=_____
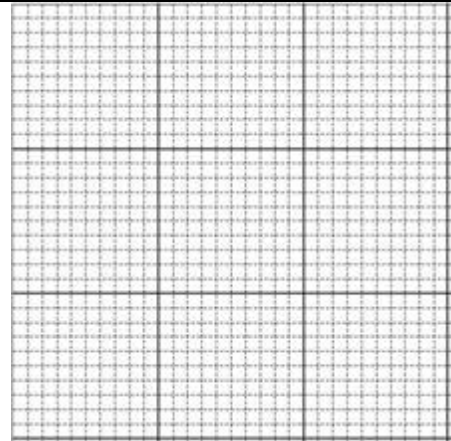
22. The fruit stand was selling bushel baskets full of great big juicy peaches for $12 each. Ian's mom bought 14 baskets of peaches. How much did she pay?

a. Write an equation using variables to solve the problem:

b. Show two ways to solve the problem. Use numbers, algorithms, words, or labeled sketches.

Answer: _____

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Note: The multiplication assessment can be given as one test or two. Items 1-12 cover multiplying 2 and 3 digit numbers by a single digit. Items 13-22 include multiplying 2 digits by 2 digits.

1. 486	2. a. *b = 3 x r* **b. *r = 5 x b*** c. *b = 5 x r* d. *r = 3 x b* The red scarf costs $15.
3. 3,336	4.

5.

| 100 x 4 | | 100 x 4 | | 50 x 4 | 4 x 4 |

.

6. *25,460*	7. *k = 4 x n* *Kim baked 48 cookies.*
8. a. 320 b. 1,644 c. **1,880** d. 1,940	9. *m = 8 x t* *Thomas's mom is 40 years old.*

10.   4 x 6 = 24 (almost 25)
6 x 8 = 48 (almost 50)
50 + 25 = 75. Your class still needs about 25 bottles of water.
If students round 24 to 20, the answer will be 30, also correct.
Bonus: Any combination that makes about 25-30 bottles; 3 six-packs, 1 eight-pack; 2 six-packs, 2 eight-packs; 5 six-packs, 0 eight-packs; etc.

11. *12,000 – 8,000 = 4,000*	12. a. 63 X 6 = 6 x 63 b. (30 x 9) x 7 = 30 x (9 x 7) **c. 304 x 5 = (300 x 5) x (4 x 5)** d. 8 x 650 = (8 x 600) + (8 x 50)

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13.	3,652	14.	4,536

15. a. 54 X 30 b. 81 X 20 c. 42 X 35 d. 45 X 36	16. a. 75 pizzas b. 116 pizzas c. 474 pizzas d. 476 pizzas
17. *You traveled 495 miles. You have 105 miles to go.*	18. *The students will use 1,248 pencils*

19. *Use the Base 10 Grid Paper to draw a model for the multiplication problem. Use the model to find the answer.*
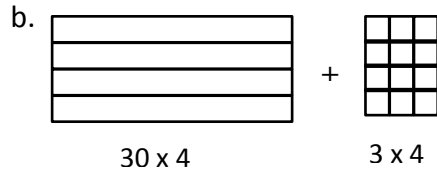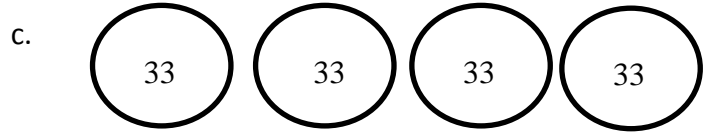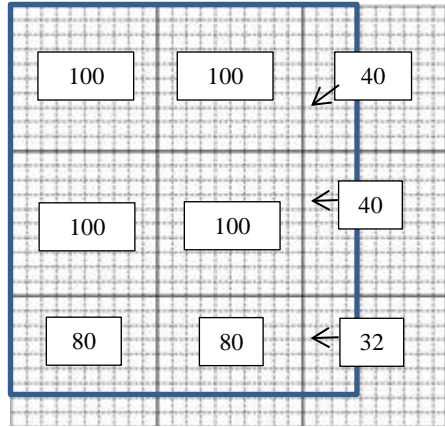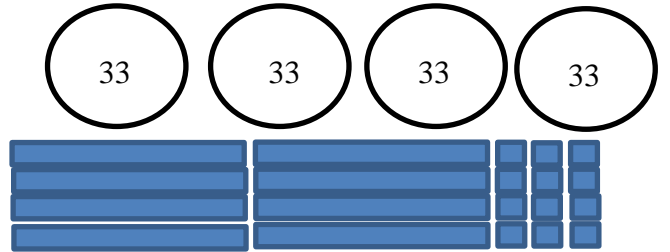
24 X 28=_ *672* _

20. Which model does NOT represent the problem 33 x 4?
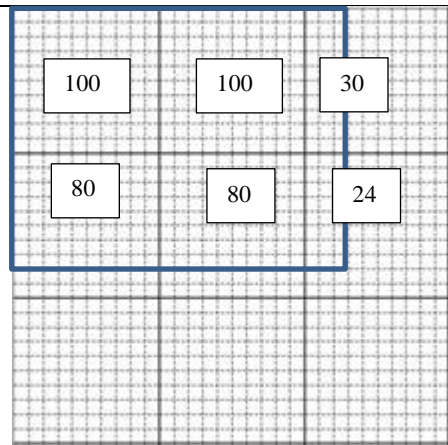

21. *Use the Base 10 Grid Paper to draw a model for the multiplication problem. Use the model to find the answer.*

23X 18=_ *414* _

22.   a. Write an equation using variables to solve the problem:
p x $/p = $ (peaches x cost per peach = total cost) or $12 x 14 = p

     b. Show two ways to solve the problem. Use numbers, algorithms, words, or labeled sketches. Answers will vary.

     c. *Ian's mom paid $168.*

4th Grade Unit 1: Multiplication (Form A)

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