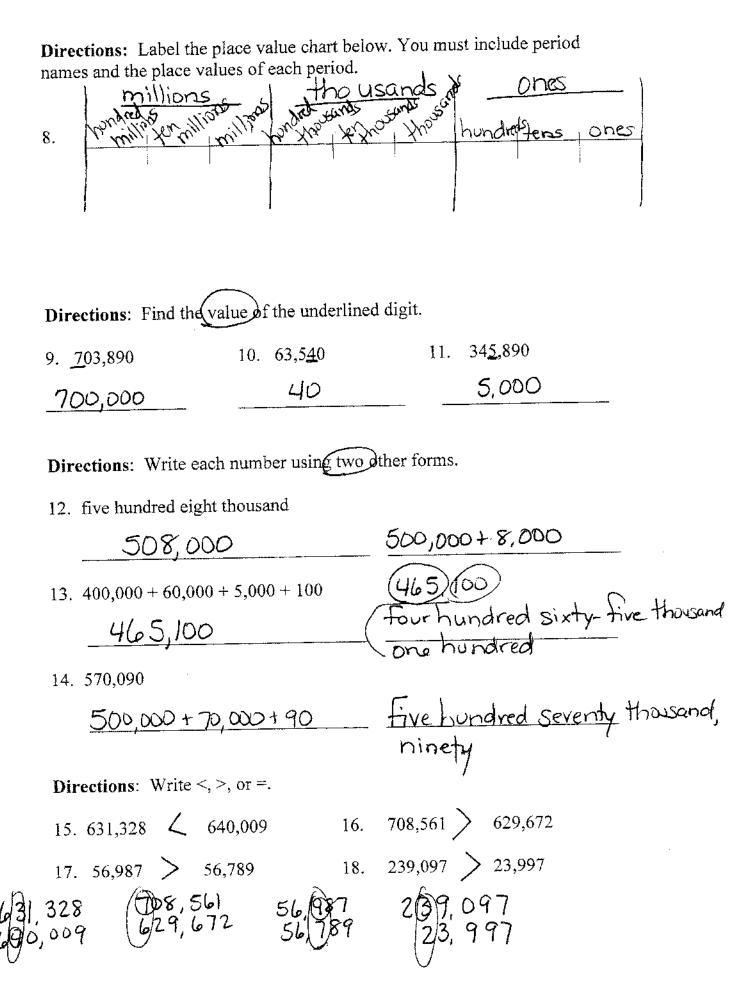
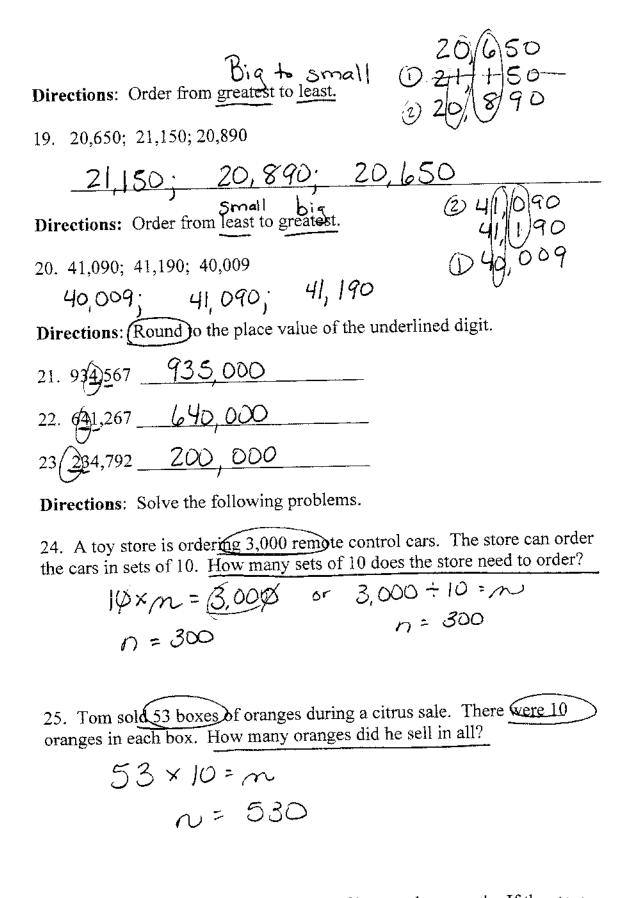
Cumulative Benchmark Assessment 1

Study Guide	
Name Answer Key	Homeroom
Directions: Model each problem using a tape dia and words. You MUST show your work!	gram. Solve using numbers
1. At a parade, 97,853 people sat in bleachers an along the street. How many fewer people were in	1388,547 people stood the bleachers than standing
on the street? 2388,847 - 97.853 - 290.694	tape diagrams ma) vary.
2. A pair of hippos weighed 5,201 kg together. The kg. How much does the male weigh?	
- 2,038 Vary 3,163	e diagrams may
Directions: Estimate, then solve the following p diagram.	problem modeling with a tape
3. A mixture of 2 chemicals measures (,034 ml) Chemical A and 755 ml of Chemical B. About I was in the mixture?	. It contains some of now much of Chemical A
mixture = 1,034 = 1,	
mixture = 1,034 \approx 1,000 Chemical B = 755 \approx 800 Chemical B = 755 \approx 800	00 - 1200

4. Gavin has 1,094 tov building blocks. Avery has only 816 toy building blocks. How many more building blocks does Gavin have?
108/4 tape diagrams may vary 278
Directions: Solve each problem
5. Tom wrote the number 45,378. Bill wrote the number 36,721
How many times greater is the 7 in Bill's number than the 7 in Tom's number?
Use pictures, numbers, or words to demonstrate your reasoning.
45, 378 36,741
6. Sarah wrote the number 13,285.
Caryn wrote a five-digit number that has only one 3 in it. The 3 in Caryn's number is worth 10 times as much as the 3 in Sarah's number. Write three different numbers that Caryn could have written.
a)b)
c)
Circle one of the numbers you wrote above. Use pictures, numbers, or words to show how you know that the 3 in that number is worth ten times as much as the 3 in Sarah's number.





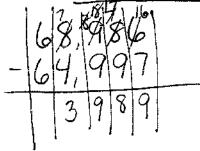
26. A store sold a total of 15,00 boxes of buttons last month. If the store sold 150,000 buttons, how many buttons were in each box?

$$1,500 \times m = 150,000$$
 $n = 100$

Directions: Estimate the sum. Show your work!	
	4.5
27. 72,931 estimate 90,000 28. 432,068 estimate	te <u>600</u> , 800
+18.563 ±239,576	1-2
(D22 DI-8	~ 400,000 ·
$931 \approx 70,000$ (4)34,000	≈ 400,000
000	+ 700 000
$72,931 \approx 70,000$ $432,068$ $863 \approx 120,000$ $39,576$	2+200,000 1000,000
	7,00,000
Directions: Estimate. Then find the difference.	,
	(2) 620
29 942 385 estimate 30. 300 980 estim	ate 100,000
	$9,000 \approx -200,000$
-14611803 $(0.12, 200 \sim 0.00)$ $\frac{-11021000}{1.00100}$ $(0.12, 200 \sim 0.00)$	0,400: 000
	9 000 = -200,00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	100,000
701,000	, ,
400,000	
·	

Directions: Read each problem and solve You must show your work!

31. Hot air halloons are able to fly at very high altitudes. A world record height of 64,997 feet was set in 1988. In 2005, a new record of 68,986 feet was set. How many feet higher was the 2005 record than the 1988 record?



32. There were 665 hot air balloon pilots at a hot air balloon race. There were 1,550 more ground crew members than there were pilots. How many ground crew members were there?

2,215 ground crew members

Directions: Regroup. Write the missing numbers.

9 tens 10 ones = hundred 33.

9×10=90 10×1.10 90+10=100

34. 60 hundreds = $60 \times 100 = 6000$

35. 2,765 = 2 thousand, 7 hundred, 6 tens, 5 ones

2,765 = 27 hundred, 6 tens, 5 ones

2,765 = 276 tens, 5 ones

2,765 = 2,765 ones

Directions: Write a comparison sentence.

36. $18 = 9 \times 2$ 18 is 9 times as any as 2.

37. $8 \times 4 = 32$ 8 times as many as 4 is 32

Directions: Write an equation.

38. $\frac{3 \times 7}{3 \text{ times}}$ as many as $\frac{7 = 21}{7 \text{ (is)}}$ 21. $\frac{3 \times 7 = 21}{39. \frac{40 \text{ (is)}}{40 \text{ times}}}$ as many as $\frac{8}{40}$. $\frac{40 = 5 \times 8}{40 \text{ (is)}}$

Directions: Draw a model. Write an equation and solve.

40. Last month Kim trained 3 times as many dogs as cats. If the total number of cats and dogs she trained last month is 28 how many cats did

Kim train? 28 Joseph

The question did not ask about dogs.

41. Ben has 3 times as many guppies as goldfish. If he has a total of 20 fish, how many guppies does he have?
guppies minimi) 20 $4 \times m = 20$ goldfish m = 5
How many guppies 3x5=15
Directions: Tell whether the exact answer is reasonable. How do you know?
42. A walking path for horses is 94 feet long. Carlos says that if a horse walks the length of the path 3 times, it will have walked 500 feet. 94 is between 90 100 If the answer was reasonable the exact quality of the answer would be between 180 and 300. 90 and 100
Directions: Multiply using the Area Model. 44. $\frac{135}{x \cdot 6}$ $\frac{100 \cdot 30 \cdot 5}{600 \cdot 180 \cdot 30}$ $\frac{5 \times 6}{30 \cdot 100}$ $\frac{100 \times 100}{30 \cdot 100}$
Directions: Solve the problem. Show your work!
46. The skating rink rents 200 pairs of skates in a month. How many pairs of skates does the rink rent in 4 months?
200

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