Unit 5 Study Guide Review
Big Numbers, Estimation, and Computation
Name _____

1. Circle to the number closest to the sum. Write a number model for the estimate.

    $221 + 254$

    600   500   400   300

    Number model: _____

2. Circle to the number closest to the sum. Write a number model for the estimate.

    $594 + 518$

    1,200   1,100   1,000   1,300

    Number model: _____

3. Circle the number that is closest to the sum. Write a number model for the estimate.

    $297 + 113 + 454$

    800   900   1,000   750

    Number model: _____

4. Circle the number that is closest to the sum. Write a number model for the estimate.

$466 + 139 + 870$

1,600   1,500   1,400   1,650

Number model: _____

Multiply. Use the partial-products algorithm. Show your work.

5. $41 * 5 = $_____

6. $35 * 4 = $_____

7. $9 * 84 = $_____

8. Use the partial-products algorithm to multiply.
    $588 * 2 = $_____

Multiply. Use the partial-products algorithm. Show your work.

9. $39 * 18 = $_____

10. $21 * 13 = $_____

11. Add.
    a. $9.1 + 1.1 = $_____
    b. $10.3 + 1.9 = $_____

12. Subtract.
    a. $10.72 - 8.27 = $_____
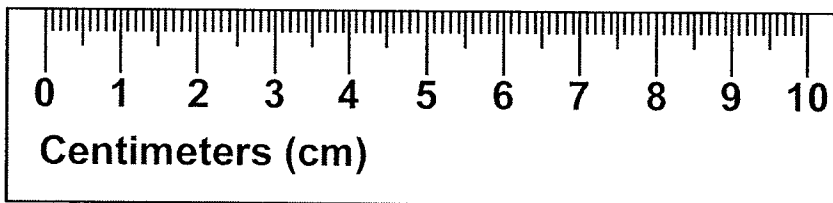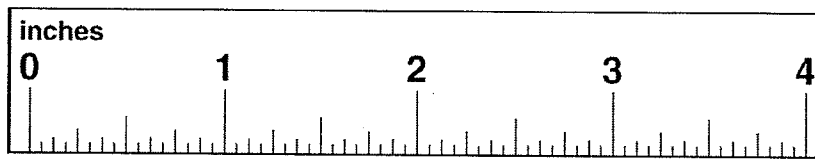   b. $9.2 - 2.7 = $_____

13. Add.
    18.75 + 6.32

14. Explain the mistake that Hannah made when she solved this problem:

    0.07
    − 0.6
    ⎯⎯⎯⎯
    0.01

15. a. How long is this line segment to the nearest $\frac{1}{4}$ inch?

    b. How long is this line segment to the nearest half centimeter?

    inches

    0   1   2   3   4

    0 1 2 3 4 5 6 7 8 9 10
    Centimeters (cm)

16. a. How long is this line segment to the nearest $\frac{1}{4}$ inch?

    b. How long is this line segment to the nearest half centimeter?

    inches

    0   1   2   3   4

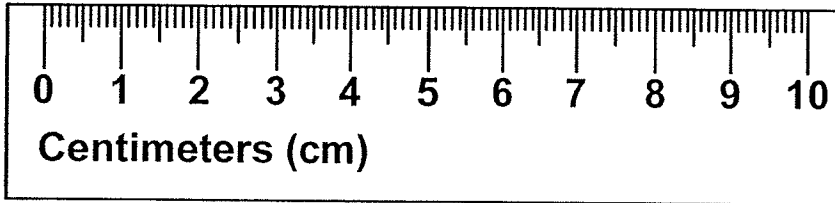   0 1 2 3 4 5 6 7 8 9 10
    Centimeters (cm)

17. a. How long is this line segment to the nearest $\frac{1}{4}$ inch?

b. How long is this line segment to the nearest half centimeter?

```
inches
0        1        2        3        4
|........|........|........|........|

0  1  2  3  4  5  6  7  8  9  10
Centimeters (cm)
```
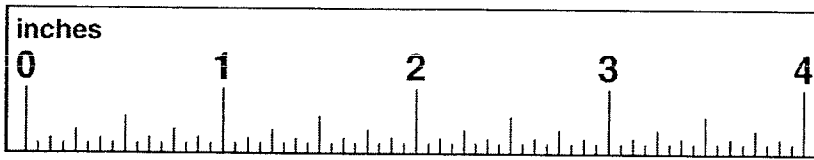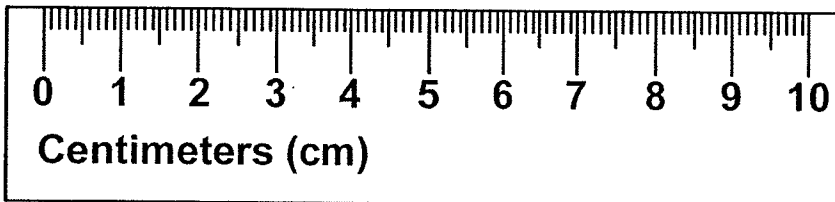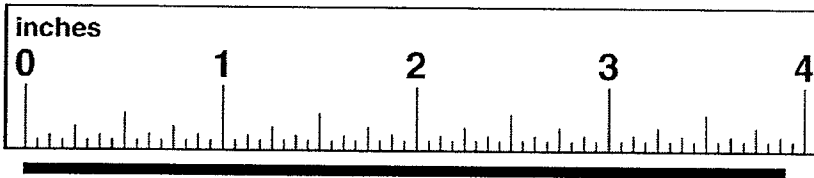
18. a. How long is this line segment to the nearest $\frac{1}{4}$ inch?

b. How long is this line segment to the nearest half centimeter?

```
inches
0        1        2        3        4
|........|........|........|........|

0  1  2  3  4  5  6  7  8  9  10
Centimeters (cm)
```
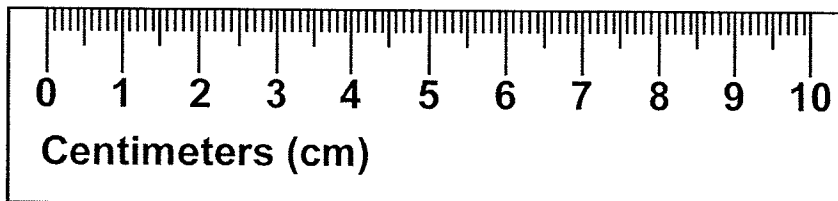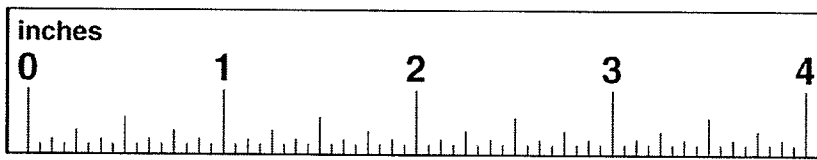
19. Complete the table.

Rule		in	out
Rule		5	
×6			24
			42
		6	
			48
		2	

20. Complete the table.

Rule		in	out
Rule		3	
×3			24
			27
		4	
			15
		2	

21. Complete the table.

Rule		in	out
Rule		7	
×70			630
			140
		5	
			420
		3	

22. Complete the table.

Rule		in	out
Rule		5	
$\times 50$			200
			150
		9	
			100
		8	

23. Complete the table.

Rule		in	out
Rule		7	
$\times 20$			160
			120
		4	
			100
		2	

24. Find the rule and complete the table.

Rule		in	out
Rule		9	
		8	240
		5	150
		6	
			90
		4	

25. Find the rule and complete the table.

in	out
4	
6	420
3	210
5	
	560
9	

Rule

26. Estimate whether the the product will be in the tens, hundreds, thousands or more. Circle your choice. Write a number model to show how you got your estimate. Then calculate the exact answer.

$27 * 67$

10s	100s	1,000s	10,000s

a. Number model: _____

b. Exact answer: _____