

Concept: Addition and Subtraction of Decimals

Name: _____

Warm-Up:

1. *And the 'Winner' is...*

This game may be played in pairs or a small group.

Materials: A 0-9 spinner or a die

Objective: To create the highest number possible and be able to correctly read it to the group.


Rules: Players take turns rolling spinning the spinner or rolling the die. Each time a number comes up, each player writes it in one space on his/her game board. Once written, the number cannot be moved. *The winner has the **LARGEST** number.*

Write your numbers in the spaces below:


Game 1: _____ . _____


Game 2: _____ . _____

COMPUTER COMPONENT

Instructions: In  follow the **Content Menu** path:

Fractions > Addition and Subtraction of Decimals

-  Work through all Sub Lessons of the following Lessons **in order**:
- *Adding Decimals*
 - *Subtracting Decimals*
 - *Decimals Around Us*

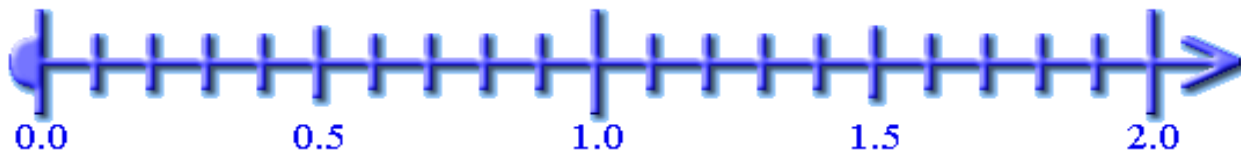
 As you work through the computer exercises, you will be prompted to make notes in your notebook/math journal.

OFF COMPUTER EXERCISES

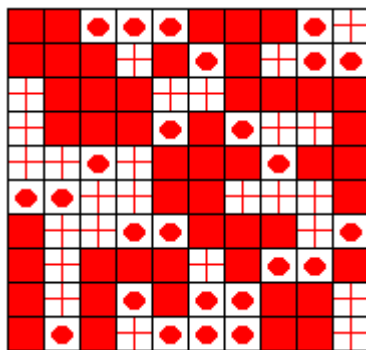
1. On the number line, show:

$0.6 + 0.7$, using red and green dots.

$1.3 + 0.9$, using yellow and black dots.



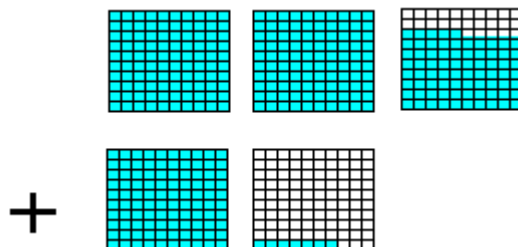
2. A game board is divided into 100 equal sized squares. Each square is _____ of the game board.
- (a) _____ of the game board is solid.
 - (b) _____ of the game board has circles.
 - (c) _____ of the game board has crosses.
 - (d) The amount dedicated to circles and solids is _____.



Write this as an addition sentence.

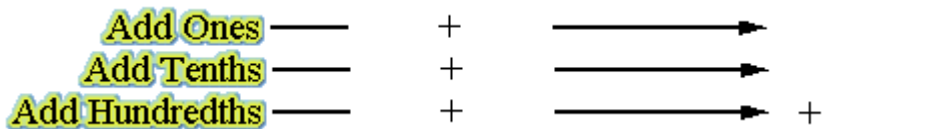
3. Add the following using the ‘Partial Sums Method’.

(a)

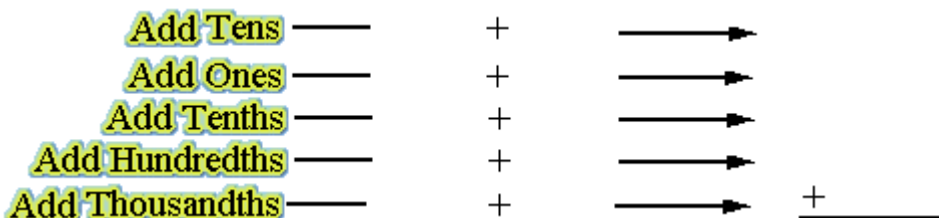


Add Ones	—	+	—	Ones	→
Add Tenths	—	+	—	Tenths	→
Add Hundredths	—	+	—	Hundredths	→
					+

(b) Add 4.59 and 2.36.

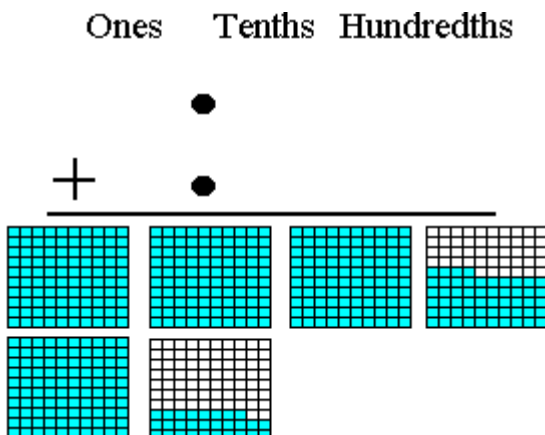


(c) Add 32.5671 and 19.47

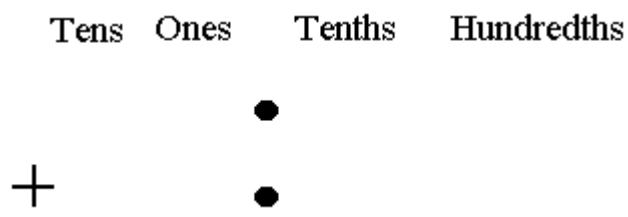


4. Add the following using the ‘Columns Method’.

(a) Add 3.54 and 1.28 in the chart below. *Adjust the sums so that each number has only one digit.*



(b) Add 25.71 and 6.96 in the chart below. *Adjust the sums so that each number has only one digit.*



(c) Add 38.15 and 14.68 in the chart below. *Adjust the sums so that each number has only one digit.*

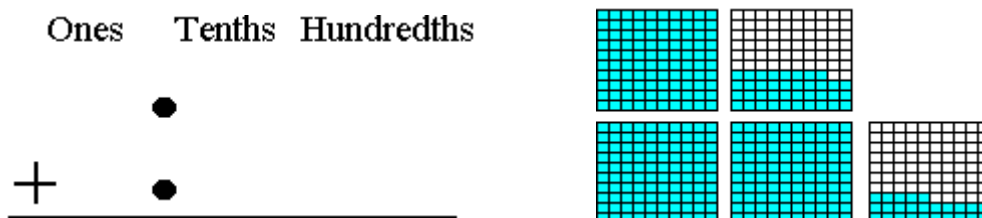
	Tens	Ones	Tenths	Hundredths
			●	
+			●	

(d) Add 10.95 and 5.9 in the chart below. *Adjust the sums so that each number has only one digit.*

	Tens	Ones	Tenths	Hundredths
			●	
+			●	

5. Add the following using the ‘Right to Left Method’.

(a) Add 1.38 and 2.25 in the chart below. *Add the numbers from right to left in the columns.*



(b) Add 42.78 and 23.44 in the chart below. *Add the numbers from right to left in the columns.*

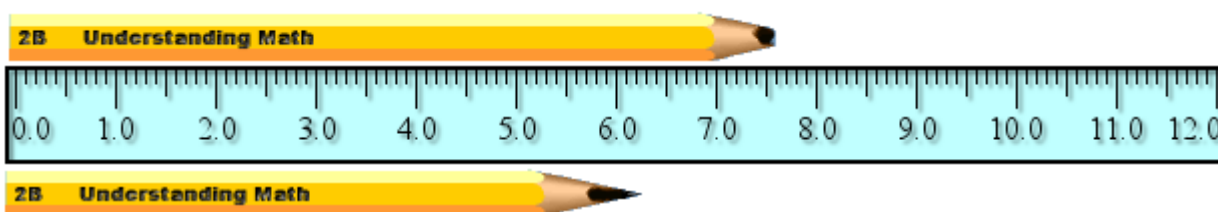
	Tens	Ones	Tenths	Hundredths
			●	
+			●	

(c) Add 58.5 and 21.67 in the chart below. *Add the numbers from right to left in the columns.*

Tens	Ones	Tenths	Hundredths
		●	
+		●	

6. Subtract the following decimal tenths.

(a)

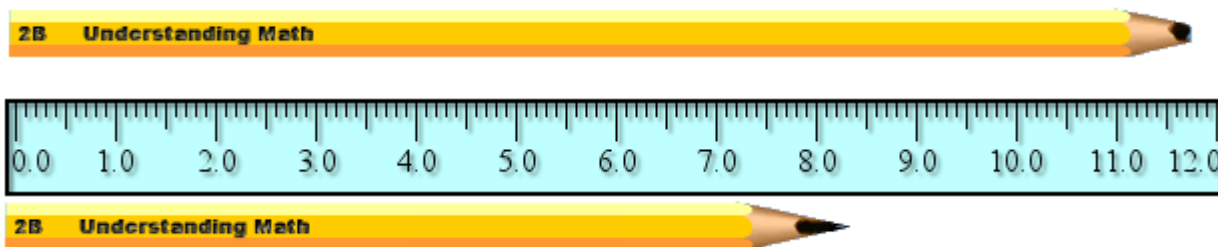


The dull pencil is _____ cm long.

The sharpened pencil is _____ cm shorter.

_____ - _____ = _____

(b)



The dull pencil is _____ cm long.

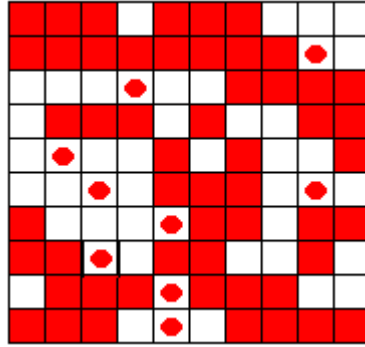
The sharpened pencil is _____ cm shorter.

_____ - _____ = _____

7. Subtract the following decimal hundredths.

This game board is divided into 100 small squares.

Each small square is _____ of the whole game board.

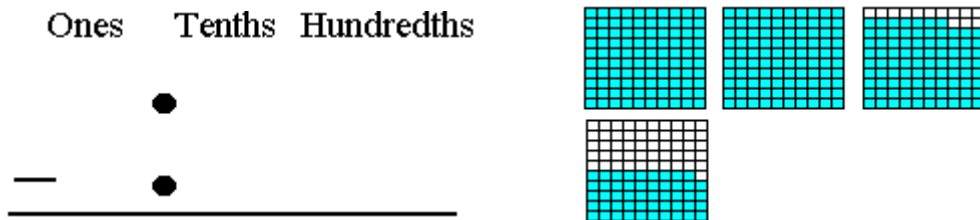


- (a) _____ squares are white. _____ of the game board is white.
- (b) _____ squares have circles. _____ of the game board has circles.
- (c) _____ of the game board remains white.

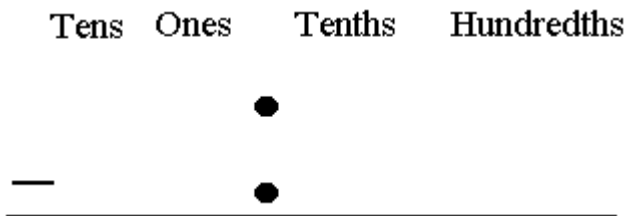
_____ - _____ = _____ OR _____ - _____

8. Subtract the following using the ‘Right to Left Method’.

- (a) Subtract 0.49 from 2.87 in the chart below. *Subtract the numbers from right to left and regroup the numbers where necessary.*



- (b) Subtract 41.98 from 52.26 in the chart below. *Subtract the numbers from right to left and regroup the numbers where necessary.*

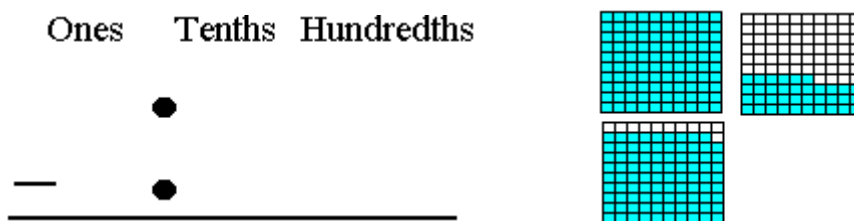


(c) Subtract 7.59 from 16.04 in the chart below. *Subtract the numbers from right to left and regroup the numbers where necessary.*

	Tens	Ones	Tenths	Hundredths
—			●	
_____			●	

9. Subtract the following using the trade first method.

(a) Subtract 0.89 from 1.36 in the chart below. *Trade numbers where necessary before you begin to subtract.*



(b) Subtract 7.59 from 16.04 in the chart below. *Trade numbers where necessary before you begin to subtract.*

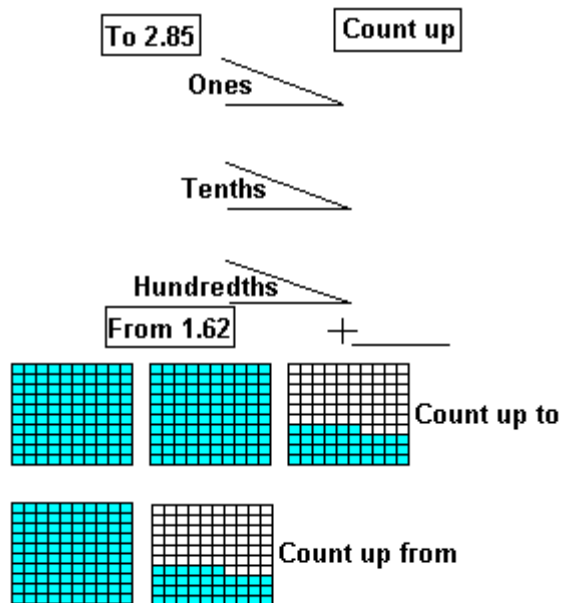
	Tens	Ones	Tenths	Hundredths
—			●	
_____			●	

(c) Subtract 51.72 from 88.99 in the chart below. *Trade numbers where necessary before you begin to subtract.*

	Tens	Ones	Tenths	Hundredths
—			●	
_____			●	

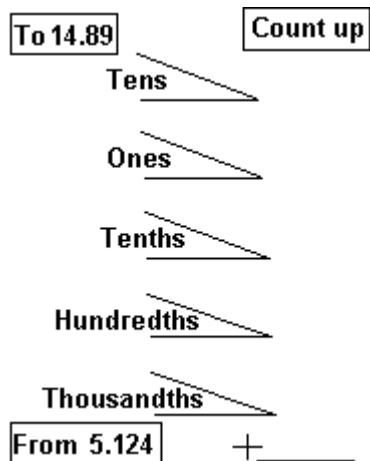
10. Subtract the following using the ‘Add Up Method’.

(a) Count up from 1.62 to 2.85 in the chart below.



$$\begin{array}{r} \text{Therefore, } 2.85 \\ - 1.62 \\ \hline \end{array}$$

(b) Count up from 5.124 to 14.89 in the chart below.



$$\begin{array}{r} \text{Therefore, } 14.89 \\ - 5.124 \\ \hline \end{array}$$

11. Use a ruler to measure the following objects and record their lengths.



Length of pencil: _____



Length of AB: _____

Length of BC: _____

Total length from A to C: _____

Perimeter of picture: _____

12. You have a dull pencil that is 14.5 centimeters long. You sharpen it 3.2 centimeters.
How long is the pencil now? _____

13. You have a mechanical pencil that is 11.3 cm long. After extending the lead, the pencil is 0.9 cm longer. *How long is the pencil with the lead extended?* _____

14. You have sharpened a pencil to 6.7 cm in length. The pencil was 12.3 cm long before you sharpened it. *By how much was the pencil shortened?* _____

15. Luke bought a bag of marbles for \$7.54. He received \$12.46 in change. *How much money did Luke use for the purchase?* _____

16. Catarina bought a pencil for \$0.31. She paid with \$1.00. *How much change did she receive?* _____

17. William has \$17.87 left after spending \$60.19 on a model airplane. *How much money did William start with?* _____
18. Donut Delight spent \$89.53 on dough Tuesday night. They made \$527.64 in donut sales. *How much profit did Donut Delight make on Tuesday night?* _____
19. Sasha completed a 100 m breaststroke race in 93.45 seconds. Brian completed the 100 m breaststroke in 104.12 seconds. *How much faster was Sasha's time than Brian's?* _____
20. Dwight completed a race 7.845 seconds behind Blake, who completed the race in 53.876 seconds. *What was Dwight's time?* _____
21. Emilie finished the first half of the relay in 87.924 seconds. She then completed the second half in 79.061 seconds. *How long did it take her to complete the entire relay?*
