

Name: ..... Class: .....

## Estimate sums and differences of decimals using benchmarks

- a. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0 , 0.45 , 0.50 , 0.55

$$1.43 + 8.53 = \underline{\hspace{2cm}} \quad \boxed{\phantom{0}} 10 \quad \boxed{\phantom{0}} 9.9 \quad \boxed{\phantom{0}} 8.49$$

- b. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0 , 0.27 , 0.50 , or 0.85

$$6.22 - 2.75 = \underline{\hspace{2cm}} \quad \boxed{\phantom{0}} 3.47 \quad \boxed{\phantom{0}} 3.4 \quad \boxed{\phantom{0}} 3.42$$

- c. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0 , 0.55 , 0.75 , or 0.95

$$5.73 - 1.47 = \underline{\hspace{2cm}} \quad \boxed{\phantom{0}} 4 \quad \boxed{\phantom{0}} 4.26 \quad \boxed{\phantom{0}} 4.2$$

- d. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0 , 0.25 , 0.50 , 0.75

$$6.73 + 2.24 = \underline{\hspace{2cm}} \quad \boxed{\phantom{0}} 9 \quad \boxed{\phantom{0}} 8.97 \quad \boxed{\phantom{0}} 8.50$$

- e. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0 , 0.25 , 0.50 , or 0.75

$$4.59 - 3.06 = \underline{\hspace{2cm}} \quad \boxed{\phantom{0}} 1.53 \quad \boxed{\phantom{0}} 7.65 \quad \boxed{\phantom{0}} 1.5$$

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☒ 10

☐ 9.9

☐ 8.49

To do this, let's start by picking out the closest benchmark for each number.

1.43 is between 1.00 and 1.45. It is closer to 1.45

8.53 is between 8.50 and 8.55. It is closer to 8.55

Finally, let's add the benchmarks.

$$1.45 + 8.55 = 10$$

**So,  $1.43 + 8.53$  is approximately equal to 10**

- b. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0, 0.27, 0.50, or 0.85

$$6.22 - 2.75 = \underline{\hspace{2cm}}$$

☐ 3.47

☐ 3.4

☒ 3.42

- c. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0, 0.55, 0.75, or 0.95

$$5.73 - 1.47 = \underline{\hspace{2cm}}$$

☐ 4

☐ 4.26

☒ 4.2

- d. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0, 0.25, 0.50, 0.75

$$6.73 + 2.24 = \underline{\hspace{2cm}}$$

☒ 9

☐ 8.97

☐ 8.50

- e. Use benchmarks with decimal parts below to estimate the sum of the expression.  
0, 0.25, 0.50, or 0.75

$$4.59 - 3.06 = \underline{\hspace{2cm}}$$

☐ 1.53

☐ 7.65

☒ 1.5