REVIEW: Estimating Decimal Sums and Differences

Name _____

Key Concept and Vocabulary
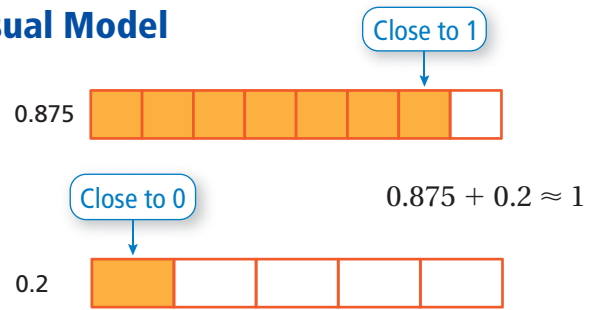
$1.46 + 2.63 \approx 1.5 + 2.5 = 4$

Estimate decimal part to be 0.0, 0.5, or 1.0.

Estimation

Visual Model

Close to 1

0.875

Close to 0

0.2

$0.875 + 0.2 \approx 1$

Skill Examples

1. $4.36 + 2.87 \approx 4.5 + 3.0 = 7.5$

2. $9.78 - 5.46 \approx 10.0 - 5.5 = 4.5$

3. $5.13 - 3.58 \approx 5.0 - 3.5 = 1.5$

4. $2.94 + 4.08 \approx 3.0 + 4.0 = 7.0$

Application Example

5. Approximate the total length of the cheetah.

├── 3.21 ft ──┤── 2.83 ft ──┤

$3.21 + 2.83 \approx 3.0 + 3.0$
$= 6.0$

The cheetah's total length is about 6 feet.

PRACTICE MAKES *PURR*-FECT™

Check your answers at BigIdeasMath.com.

Estimate the sum or difference.

6. $3.65 - 2.72 \approx$ ___1___

7. $9.03 - 6.78 \approx$ ___2___

8. $2.35 + 5.67 \approx$ ___8___

9. $8.21 - 4.11 \approx$ ___4___

10. $5.68 + 4.38 \approx$ ___10___

11. $3.92 + 3.92 \approx$ ___8___

12. $2.61 + 3.45 \approx$ ___6___

13. $2.07 - 1.45 \approx$ ___0.5___

14. $10.04 - 6.79 \approx$ ___3___

Approximate the total cost of the two shirts.

15. $17.89 $15.07

$33

16. $23.49 $23.49

$47

17. SHOPPING At the grocery store, you buy items for $1.79, $3.15, $2.45, $9.08, and $3.49. Estimate the total amount you spend. ___$20___

18. MENTAL MATH You buy 6 hamburgers that cost $3.45 each. Using only mental math, estimate the total amount of the 6 hamburgers.

One hamburger is about $3.50, so two hamburgers are about $7.

$2 \times 3 = 6$ so, 6 hamburgers are about 3×7 or $21.