WARM UP

Turn to page 8 and answer Check Skills questions 1-5. (In upper left hand corner)

MATH COURSE I

Estimation Strategies

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VOCABULARY

- Clustering: round the numbers to the same value Clustering Example
- Compatible Numbers: numbers that are close to the numbers in the problem that are easier to solve mentally Compatible Numbers Example
- Front End Estimation: round numbers to the leftmost place
- Rounding: replacing the numbers with similar numbers at the given place value

Clustering

Use clustering when the numbers are close in value.

Example:

Round them all to 15.

$$15 \times 4 = 60$$

Compatible Numbers

Use when you can round one or both of the numbers to a similar number to compute mentally.

Example:

$$52 \times 21 =$$

$$50 \times 20 = 1,000$$

Front End Estimation (least useful)

Round numbers to the first place value.

Example:

$$67 + 81 =$$

$$60 + 80 =$$

Example:

$$200 - 50 = 150$$

Decimals Example:

\$3.98
$$0.98 \approx 1$$
\$6.49
\$9.08
+ \$3.47

 $0.49 \approx 0.08 \approx 1$
 $0.49 \approx 0.08 \approx 1$
 $0.49 \approx 0.08 \approx 1$

$$3 + 6 + 9 + 3 + 1 + 1 = $23$$

PRACTICE

■ Page 10 questions 7-10, 11-18, 19-27.