Mental Math

Use the properties of operations and mental strategies to compute.

Commutative Property: The order in which numbers are added or multiplied does not affect the sum or product.

Associative Property: The way in which numbers are grouped to be added or multiplied does not affect the sum or product.

Break apart the numbers:

Add the tens, add the ones, then add the sums together.

$$47 + 83$$
 $(40 + 7) + (80 + 3)$
 $(40 + 80) + (7 + 3)$
 $120 + 10$
 130

Look for multiples of 10 or 100.

Multiply numbers having a product of 10 or 100 first. Then multiply the other number.

$$20 \times 6 \times 5$$

$$(20 \times 5) \times 6$$

$$100 \times 6$$

$$600$$

Use compensation.

Add to make a round number, then subtract that number from the sum.

Be sure to add and subtract the same number

Compute mentally.

11.
$$7 \times 25 \times 4 =$$

2.
$$6 \times 40 \times 5 =$$

8.
$$4 \times 9 \times 25 =$$

13. Strategy Practice Explain the steps you can use to find $7 \times 2 \times 50$ mentally.