



Associative Property: Efficient Grouping

Grade 4

Name: _____

Compare groupings. Circle easier form. Compute product.

Example: $18 \times (25 \times 4)$ vs $(18 \times 25) \times 4 \rightarrow (25 \times 4) = 100$ so $18 \times 100 = 1800$

- (1) Compare $(15 \times 2) \times 50$ with $15 \times (2 \times 50)$ and find the product by choosing the easier grouping.
- (2) Compare $(24 \times 4) \times 25$ with $24 \times (4 \times 25)$ and find the product by choosing the easier grouping.
- (3) Compare $(12 \times 5) \times 20$ with $12 \times (5 \times 20)$ and find the product by choosing the easier grouping.
- (4) Compare $(38 \times 5) \times 2$ with $38 \times (5 \times 2)$ and find the product by choosing the easier grouping.
- (5) Compare $(7 \times 25) \times 40$ with $7 \times (25 \times 40)$ and find the product by choosing the easier grouping.
- (6) Compare $(16 \times 5) \times 4$ with $16 \times (5 \times 4)$ and find the product by choosing the easier grouping.
- (7) Compare $(22 \times 10) \times 5$ with $22 \times (10 \times 5)$ and find the product by choosing the easier grouping.
- (8) Compare $(9 \times 8) \times 125$ with $9 \times (8 \times 125)$ and find the product by choosing the easier grouping.
- (9) Compare $(13 \times 20) \times 5$ with $13 \times (20 \times 5)$ and find the product by choosing the easier grouping.
- (10) Compare $(6 \times 250) \times 4$ with $6 \times (250 \times 4)$ and find the product by choosing the easier grouping.

