



Associative Property: Efficient Grouping

Grade 3

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 $(15 \times 2) \times 50$ and $15 \times (2 \times 50)$. What is the product using the easier grouping? _____
- (2) Compare $(23 \times 4) \times 25$ and $23 \times (4 \times 25)$. What is the product using the easier grouping? _____
- (3) Compare $(7 \times 5) \times 20$ and $7 \times (5 \times 20)$. What is the product using the easier grouping? _____
- (4) Compare $(12 \times 5) \times 50$ and $12 \times (5 \times 50)$. What is the product using the easier grouping? _____
- (5) Compare $(11 \times 2) \times 25$ and $11 \times (2 \times 25)$. What is the product using the easier grouping? _____
- (6) Compare $(9 \times 4) \times 50$ and $9 \times (4 \times 50)$. What is the product using the easier grouping? _____
- (7) Compare $(13 \times 5) \times 40$ and $13 \times (5 \times 40)$. What is the product using the easier grouping? _____
- (8) Compare $(6 \times 25) \times 8$ and $6 \times (25 \times 8)$. What is the product using the easier grouping? _____
- (9) Compare $(14 \times 4) \times 15$ and $14 \times (4 \times 15)$. What is the product using the easier grouping? _____
- (10) Compare $(8 \times 3) \times 50$ and $8 \times (3 \times 50)$. What is the product using the easier grouping? _____

