

Multiplication & Division

Vocabulary Bunting

PRODUCT

The product is the answer to a multiplication problem.

$$12 \times 15 = 180$$

FACTORS

Numbers being multiplied together are factors.

MULTIPLICATION

Making equal groups to find the total.

$$4 \times 6$$

4 groups of 6

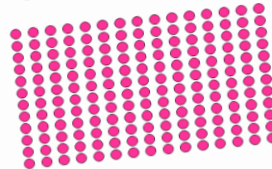


ARRAY

Objects are arranged in a rectangular grid in an array.

$$12 \times 15$$

12 rows of 15



PARTIAL PRODUCTS

$$\begin{array}{r} 12 \rightarrow 10+2 \\ \times 15 \rightarrow \times 10+5 \\ \hline 10 \times 10 = 100 \\ 10 \times 5 = 50 \\ 2 \times 10 = 20 \\ 2 \times 5 = 10 \\ \hline 180 \end{array}$$

Partial products are parts of the final product.

MODEL

$$\times 15$$

length: 15

$$+ 5$$

$$10 \times 5 = 50$$

$$5 \times 5 = 25$$

$$50 + 25 = 75$$

DISTRIBUTIVE

Property of Multiplication

$$5(3+2)$$

$$(5 \times 3) + (5 \times 2)$$

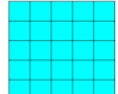
Distribute 5x to each of the addends.

PERFECT SQUARE

A perfect square is the product of identical factors.

1, 2, 4, 9, 16, and 25 are perfect squares.

$$5 \times 5 = 25$$



$$2 \times 2 = 4$$



$$4 \times 4 = 16$$



$$3 \times 3 = 9$$



$$1 \times 1 = 1$$



ASSOCIATIVE

Property of Multiplication

$$(8 \times 50) \times 5$$

$$8 \times (50 \times 5)$$

You can change the grouping to make multiplication easier and you will get the same product.

COMMUTATIVE

Property of Multiplication

$$70 \times 20$$

$$20 \times 70$$

4th
GRADE

Quick to Hang & Quick to Take Down for storage

(before state testing)

QUOTIENT

The quotient is the answer to a division problem.

$$180 \div 12 = 15$$

Two types of DIVISION

Partitive

Separate into equal sized groups. The **size of the group** is unknown.

Measurement

Take out equal sized groups. The **number of groups** is unknown.

Partitive (Fair Share) DIVISION

Separate into equal sized groups
The **size of the group** is unknown.

24 shapes are shared equally
between 4 students. How many
shapes will each student get?

$$24 \div 4 = 6$$

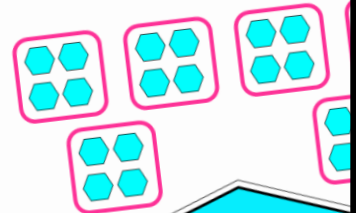


Measurement DIVISION

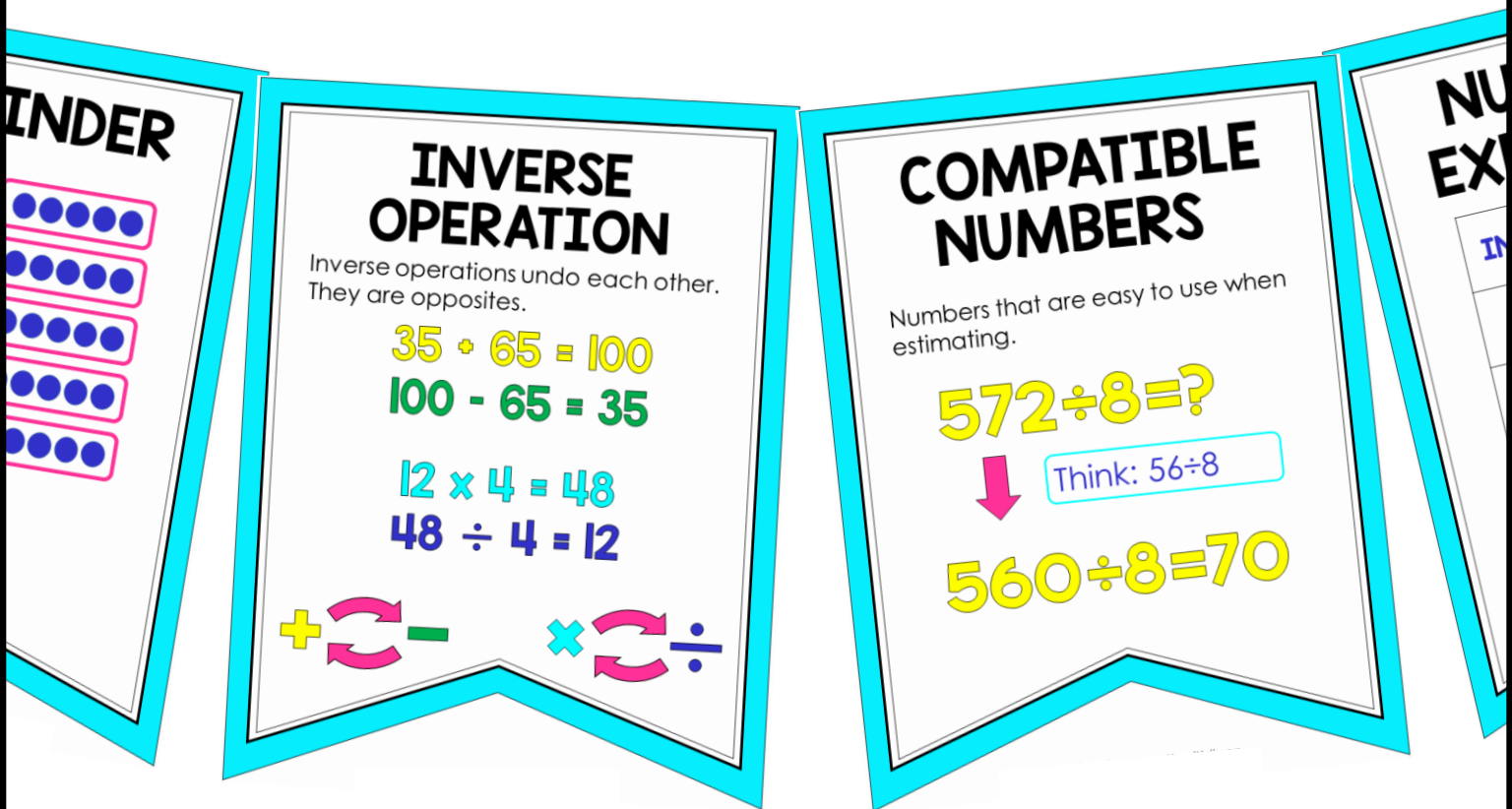
Take out equal sized groups
The **number of groups** is unknown.

Julia put 24 shapes into bags. She
put 4 shapes in each bag. How many
bags did Julia use?

$$24 \div 4 = 6$$



20 Easy-to-Use Printable Vocabulary Pennants to **support your students** and brighten your classroom walls.



A **Digital Version** is included as easy-to-use Google Slides for student support in class or at home.

