

Distributive Property and Rounding Decimals

Warmup: Show each step on paper, then check your answer on the website.

1. Write the equation given for each property

Commutative Property of Addition: _____

Commutative Property of Multiplication: _____

Associative Property of Addition : _____

Associative Property of Multiplication : _____

Identity Property of Multiplication : _____

Identity Property of Addition : _____

Zero Property of Multiplication : _____

Simplify each expression

2. $6(5+10)$ $6(5) + 6(10)$

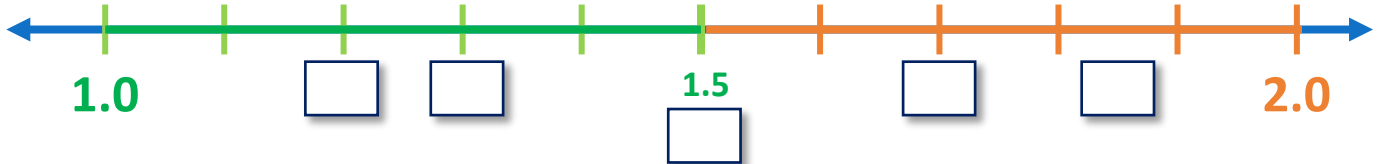
3. $7(6+4)$ $7(6) + 7(4)$

4. Arrange these numbers in order from least to greatest: 7.05, 7.1, 7.0

5. What is a factor?

- factors are numbers multiplied together to get a product.
- factors are numbers added together to get a sum.
- factors are numbers subtracted to get a difference.
- factors are numbers divided to get a quotient.

6. Label 1.3, 1.2, 1.85, 1.5 and 1.7 on the number line.



- I. Distributive Property
- II. Round Decimal Numbers

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Pre-Algebra and Geometry I

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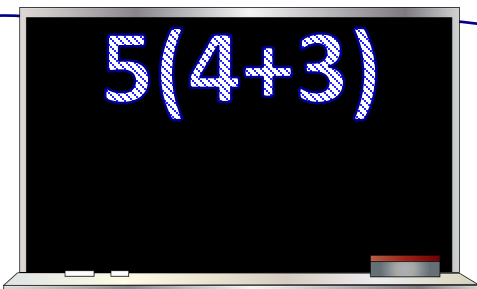
I. Distributive Property

Distributive Property:

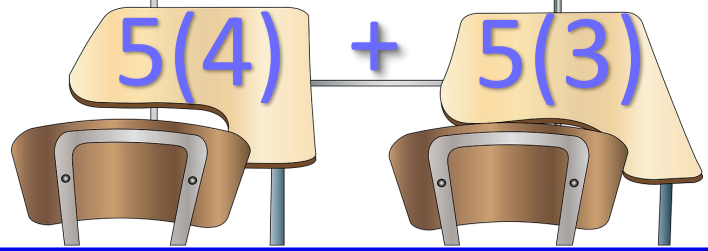
The sum of the addends multiplied by a number

is equal to

sum of the products made by multiplying each addend and the number


$$5(4+3)$$




$$5(4) + 5(3)$$

$$5(4 + 3) = 5(\underline{\quad}) + 5(\underline{\quad})$$

$$1(2 + \underline{\quad}) = 1(2) + 1(6)$$

$$4(9) + 4(1) = 4(9 + 1)$$

Simplify using the distributive property: $5x + 5y = 5(\underline{\hspace{1cm}} + \underline{\hspace{1cm}})$

Simplify using the distributive property:

$$2(x + 8) = \underline{\hspace{1cm}}(x) + \underline{\hspace{1cm}}(8)$$

II. Round Decimal Numbers

Round 21.254 to the nearest hundredths

21.254



Rounding Decimal Numbers: to round the decimal to a place value

Underline the number you are rounding to

Circle the place value to the right 

If the number circled is 5 or greater, round up.

If the number circled is less than 5, round down.

The last digit you write should be in the place that was underlined

Round 45.9188
to the nearest
thousandths.

45.9188

Round 4.999 to
the nearest
tenths.

Round 23.495 to
the nearest
hundredths.

12. Round 850.29364 to the nearest hundredths place.

13. Round 729.64986 to the nearest hundredths place.