



THE 'NEW' NEW MATH

Traditional

Prior to the Common Core, sixth- and seventh-graders learned to cross-multiply two equivalent fractions to find a missing term. They applied an algorithm without demonstrating a deeper understanding of proportionality.

$$\frac{2}{3} = \frac{4}{b}$$

$$\frac{2}{3} = \frac{4}{b}$$
 \Rightarrow $2b = 4 \times 3$ \Rightarrow $2b = 12$ \Rightarrow $b = 6$

Problem: Find b.

Solution: Multiply each numerator with the opposite denominator and solve for b.

Common Core

Ignoring the special case of finding an unknown numerator or denominator, Common Core math focuses instead on the concept of proportionality. It moves away from rote procedures like cross-multiplying, allowing students to demonstrate understanding of a new concept and learn how it connects with other areas of math.

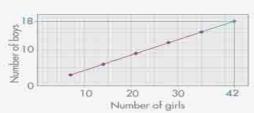
<u>Problem.</u> The ratio of boys to girls in a class is 3:7.

Use this ratio to create a table with four equivalent ratios.

Solution: Write the ratio as a fraction and create a table with equivalent fractions. Understand that multiplying the numerator and denominator of a fraction by the same number produces a new fraction that equals the original fraction.

Problem continued: Plot the pairs of resulting values on a coordinate plane to visualize the relationship. Using this slope, how many boys are in a class with 42 girls?

Solution: Use the strategy of drawing auxiliary lines (blue) for solving the problem.



Counting-Up Subtraction Method

You can subtract two numbers by counting up from the smaller number to the larger number. Subtracting this way is called the counting-up method.

- 1. Write the smaller number. Count up to the nearest multiple of 10. 2. Keep counting up by 10s and 100s.
- 3. Then count up to the larger number.

You counted up by 287.

	Subtract 38 from 325 by counting up. Write the smaller nber, 38, and count up to 325. Circle each number that					
	count up.	3 8				
	+	2	Count up to the nearest 10.			
No. of the last	Still Strategy	4 0	Count up to the passed 100			

+ 60	Count up to the nearest 100.
100	Count up to the largest
300	possible hundred.
+ (25)	Count up to the larger number.

3 2 5 Then, add the numbers you circled: 2 + 60 + 200 + 25 = 287

Metric Conversion Chart

TABLE 2-2 SI Prefixes

Unit abbreviation	Exponential factor	Meaning	Unit Equivalents Example (Using meters)
T	10 ¹²	1 000 000 000 000	1 terameter (Tm) = 1×10^{12} m
G	10 ⁹	1 000 000 000	1 gigometer (Gm) = 1×10^9 m
М	10 ⁶	1 000 000	1 megameter (Mm) = 1×10^6 m
k	10 ³	1000	1 kilometer (km) = 1000 m
h	10 ²	100	1 hectometer (hm) = 100 m
da	10 ¹	10	1 decameter (dam) = 10 m
	10 ⁰	1	1 meter (m)
d	10-1	1/10	1 decimeter (dm) = 0.1 m
c	10-2	1/100	1 centimeter (cm) = 0.01 m
m	10 ⁻³	1/1000	1 millimeter (mm) = 0.001 m
μ	10 ⁻⁶	1/1 000 000	1 micrometer (μ m) = 1 × 10 ⁻⁶ m
n	10 ⁻⁹	1/1 000 000 000	1 nanometer (nm) = 1×10^{-9} m
p	10 ⁻¹²	1/1 000 000 000 000	1 picometer (pm) = 1×10^{-12} m
f	10 ⁻¹⁵	1/1 000 000 000 000 000	1 femtometer (fm) = 1×10^{-15} m
a	10 ⁻¹⁸	1/1 000 000 000 000 000 000	1 attometer (am) = 1×10^{-18} m
	abbreviation T G M k h da d c m	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

MPG TO L/100KM







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- + SIGN POST CRASH ALERT SYS-WARRANTE

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PRICE INFORMATION

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Driver Passenger Not Flated Not Rated

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Star ratings range from 1 to 5 stars ($\star\star\star\star$), with 5 being the highest Source: Hational Highway Traffic Safety Administration (HHTSA). www.safertar.gov or 1-888-327-4236





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For more information visit

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Source: U.S. National Highway Traffic Safety Administration For more information / Pour de plus amples renseignements www.safercar.gov





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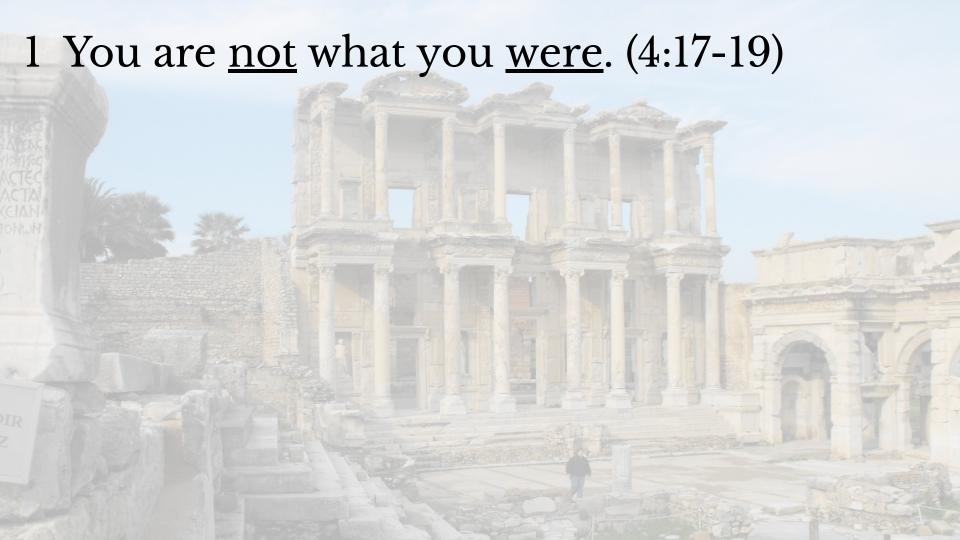
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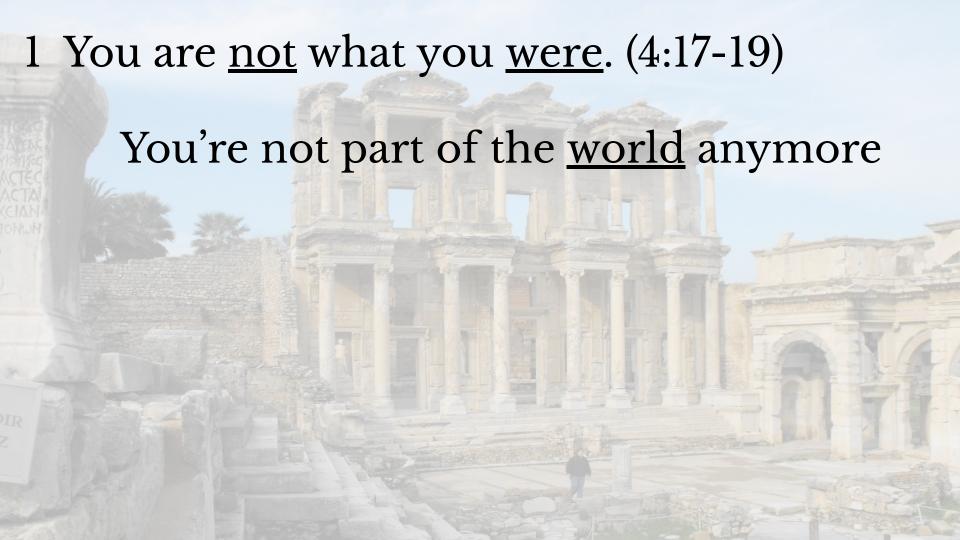
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Built In Christ Jesus:

Everything has changed; You are a "New Humanity" (Ephesians 4:17-24)





You're not part of the world anymore

The "World" ("Gentiles") cannot understand this Truth

You're not part of the world anymore

The "World" ("Gentiles") cannot understand this Truth
They've become <u>calloused</u>

You're not part of the world anymore

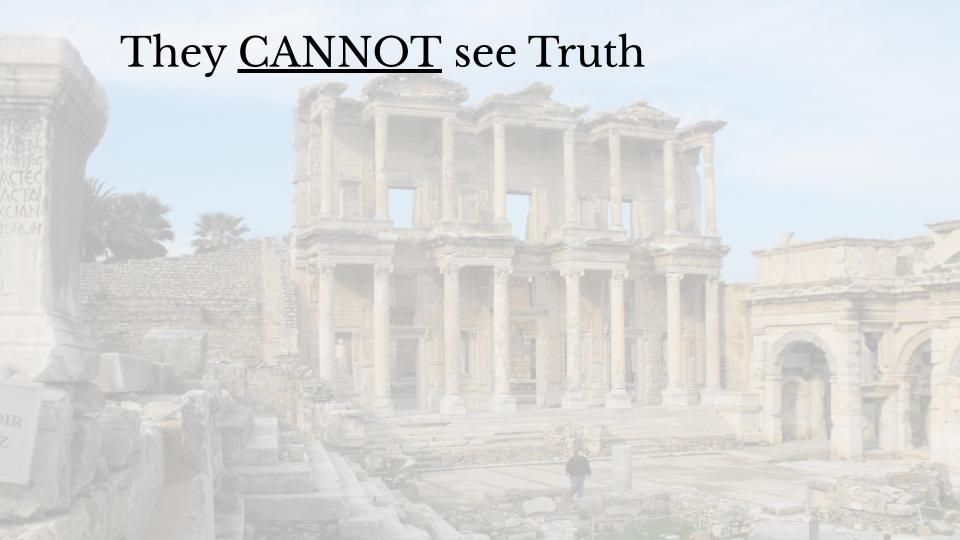
The "World" ("Gentiles") cannot understand this Truth
They've become <u>calloused</u>
They've been <u>darkened</u> in their mind

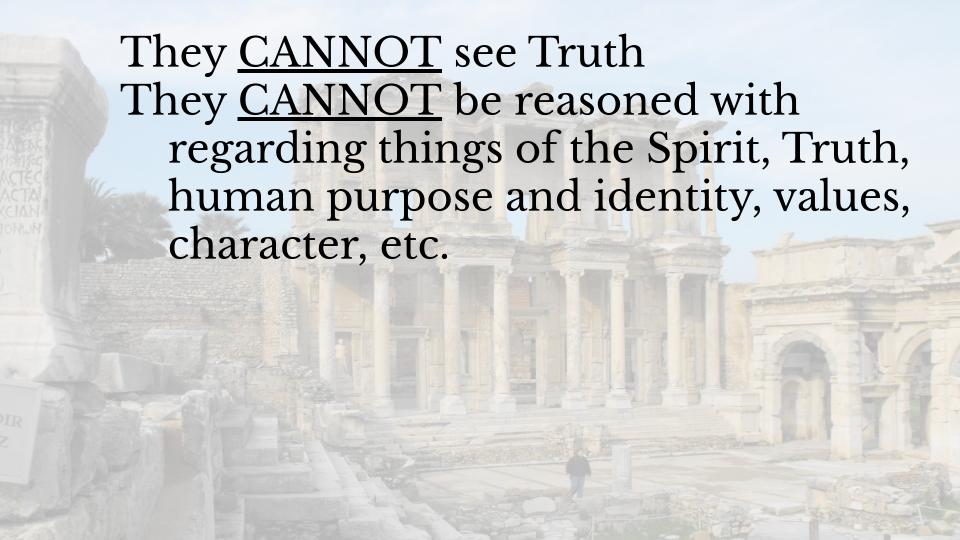
You're not part of the world anymore

The "World" ("Gentiles") cannot understand this Truth
They've become calloused
They've been darkened in their mind
They have become blinded

You're not part of the world anymore

The "World" ("Gentiles") cannot understand this Truth They've become calloused They've been darkened in their mind They have become blinded Cf. Romans 1:18-32; Prov. 4:18-19





They <u>CANNOT</u> see Truth
They <u>CANNOT</u> be reasoned with
regarding things of the Spirit, Truth,
human purpose and identity, values,
character, etc.

They need Christ to lift the veil of darkness

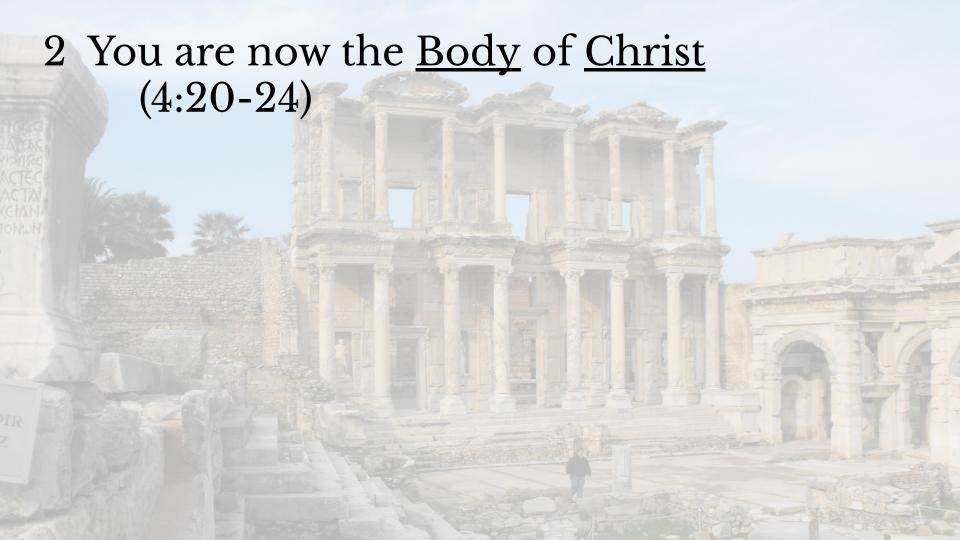
Cf. 2 Corinthians 3:12-18

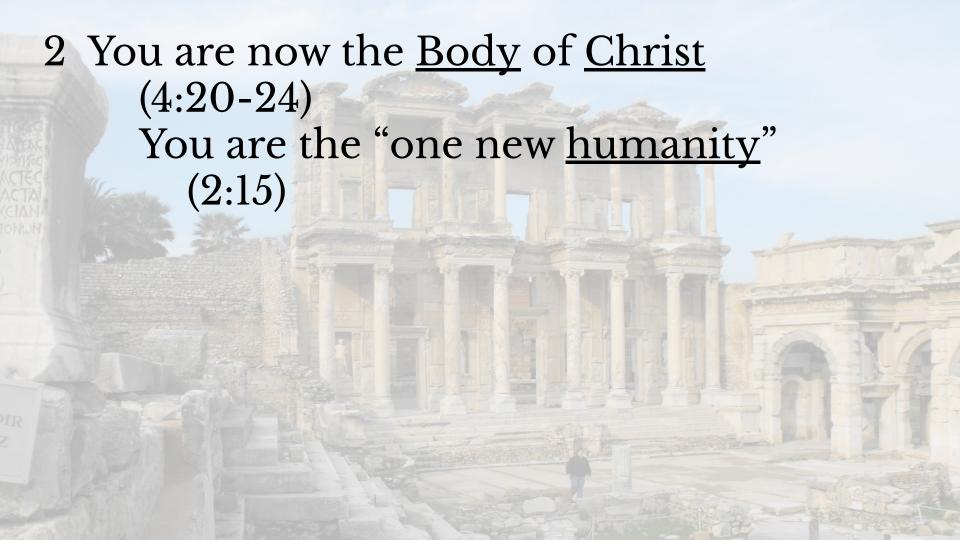
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character, etc.

They need Christ to lift the veil of darkness

Cf. 2 Corinthians 3:12-18

Only regeneration and renewal can help them now (Titus 3:3-9)





2 You are now the <u>Body</u> of <u>Christ</u> (4:20-24)

You are the "one new <u>humanity</u>" (2:15)

Your life should be all about this new body, the temple of God.

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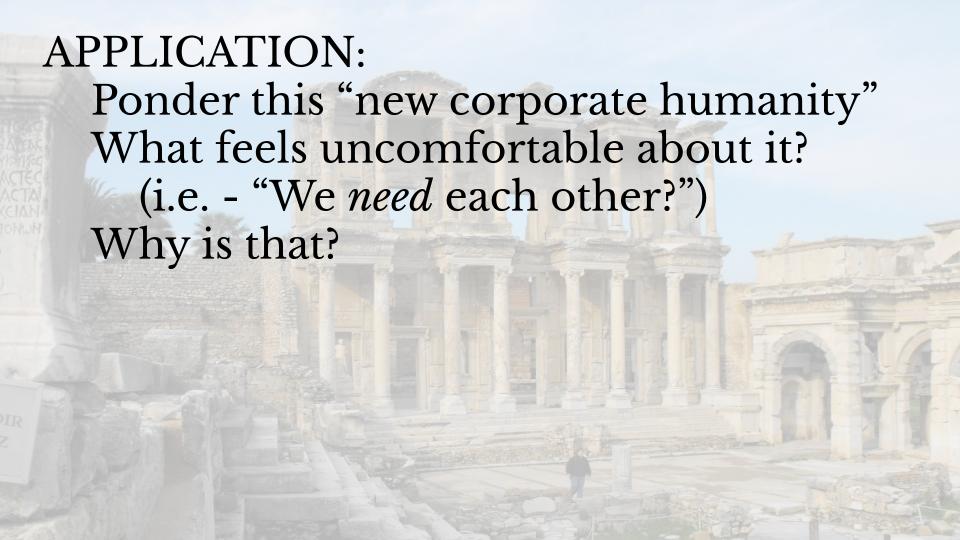
Everything you say and do should reflect your membership in the Body of Christ.

Your understanding of <u>Truth</u> is defined by this relationship









APPLICATION:

Ponder this "new corporate humanity" What feels uncomfortable about it? (i.e. - "We *need* each other?")

Why is that?

What is TRUE about the new humanity?

APPLICATION:

Ponder this "new corporate humanity" What feels uncomfortable about it? (i.e. - "We *need* each other?")

Why is that?

What is TRUE about the new humanity?

How do you feel about all of that?



