

August 30, 2016
 * Quiz #2 - Tomorrow
 • Core 1.1
 • Tools

Aug 30-9:52 AM

① $2(x+6) + 3(x+2) + 10 = 30$
 ② $2x + 12 + 3x + 6 + 10 = 30$ Dist.
 ③ $(2x + 3x) + (12 + 6 + 10) = 30$ Comm/Assoc.
 ④ $5x + 28 = 30$ Assoc.
 ⑤ $\frac{5x}{5} = \frac{2}{5}$ A.D.
 ⑥ $x = \frac{2}{5}$ M.D.

Aug 30-10:07 AM

⑥ Additive Identity
 $a + 0 = a$
 ⑦ Multiplicative Identity
 $a \cdot 1 = a$

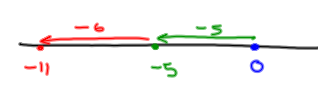
Aug 30-10:15 AM

① $5(x-1) - 3(x+2) + 12 = 20$
 ② $5x - 5 - 3x - 6 + 12 = 20$ Dist.
 ③ $5x - 3x - 5 - 6 + 12 = 20$ Comm.
 ④ $2x + 1 = 20$ Assoc.
 ⑤ $2x = 19$ A.D.
 ⑥ $x = \frac{19}{2}$ M.D.

Aug 30-10:18 AM

CORE 1.1
 Absolute Value
 $|a| = a$
 * means distance from zero.
 ↓
 is always positive
 $|5| = 5$
 5 units ← 5 units from zero
 -5 ← 0 → 5
 $|-5| = 5$

Aug 30-10:30 AM

Addition of Integers
 Same sign
 + + → positive
 $2 + 3 = +5$
 - + - → negative
 $-5 - 6 = -11$
 $(-5) + (-6)$


Aug 30-10:35 AM

Different signs

- $(+) + (-)$ $2 + (-8)$
- $(-) + (+)$

* subtract the small abs from larger & give the "sign" of the larger.

$|2| = 2$ & $|(-8)| = 8$

$2 < 8$

$8 - 2 = -6$

Aug 30-10:38 AM

Exponents

a^m

↑ Base

← exponent

The exponent tells us how many factors of the base are being multiplied.

$5^3 = 5 \cdot 5 \cdot 5$
 $= 25 \cdot 5$
 $= 125$

Aug 30-10:45 AM