

Free Practice Terra Nova Tests

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Algebra Placement Test

Sample Problems
Solutions and Reference
DETAILED RESULTS

Addition, Subtraction
and Multiplication Rules for Equations

✓

You correctly answered each of these questions.

$7x + 3 = 24$ Solve for x

$7x + 3 - 3 = 24 - 3$

$7x = 21$

$\frac{7x}{7} = \frac{21}{7}$

$x = 3$

Variables and Evaluation

✓

You correctly answered each of these questions.

Indicate XY, YZ, YZ, XZ, YZ, and T, U.

$XY = 17$

$(17)(4) = 68$

$68 - 2$

66

Symbols of Inclusion

✓

You correctly answered each of these questions.

Solve $10(5) + 4(2)(12)$

$10 + 4(14)$

$10 + 56$

66

Least Common Multiple

✓

You correctly answered each of these questions.

What is the least common multiple of 15, 11, 19?

$15 = 3 \times 5$ (Prime Factors)

$11 = 11$ (Prime Factor)

$19 = 19$ (Prime Factor)

To compare the least common multiple, use each prime factor the greatest number of times it is a factor of any of the numbers.

$LCM(15, 11, 19) = 3 \times 5 \times 11 \times 19 = 399$

2 Step Equations with Fractions

✓

You correctly answered each of these questions.

Solve $7(16) + 5(8)$ Solve for x .

$x = \frac{7}{16} + \frac{5}{8}$

$x = \frac{7}{16} + \frac{10}{16}$

$x = \frac{17}{16}$

$x = \frac{17}{16}$

Word Problems with Ratios

✓

You correctly answered each of these questions.

During the cold spell, Snow brought 14 boxes for \$520. How much would Snow have spent if he had bought 20 boxes instead?

$\frac{520}{14} = \frac{x}{20}$

$10.71 \times 20 = 214.28$

214.28

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1/1