N3CS20

Practice Set 08

Instructions: Answer each question on loose leaf, quad-ruled (graph paper), headed properly and written in lead-graphite. Remember to fold paper along the center, work exercises in order top to bottom, left column then right column. Staple multiple pages

1. Identify the additive inverse of the numeric term either added or subtracted from the unknown:

a)
$$x-5=-3$$
 b) $y+5=-4$ c) $a-\frac{2}{3}=-2$
d) $b+\frac{1}{8}=-\frac{2}{5}$ e) $c-0.75=4.2$

2. Identify the reciprocal of the factor (coefficient) multiplied to the unknown.

a)
$$\frac{5}{7}d = -3$$
 b) $-\frac{6}{5}k = 11$ c) $5n = -13$
d) $-6p = 4.7$ e) $\frac{q}{9} = -1.8$

- 3. When are two numbers additive inverses? Justify with evidence.
- 4. When are two numbers reciprocal? Justify with evidence.
- 5. Solve One-Step Equations: Determine the value of the unknown that makes the statement true:

a)
$$x-5 = -8$$
 b) $x+5 = -2$ c) $a + \frac{1}{4} = \frac{3}{8}$
d) $b - \frac{3}{5} = \frac{7}{10}$ e) $c - 0.36 = \frac{3}{4}$

6. Which expression is equivalent to $(9.5 \times 10^5) - (2.3 \times 10^4)$?

a) 7.2 • 10 b) 9.27 • 10 c) 7.2 • 10⁵ d) 9.27 • 10⁵

- 7. Simplify, with all exponents positive: $\frac{2^7 \cdot 3^{-2} \cdot 4^{-1}}{2^{-5} \cdot 3^3 \cdot 4^5}$
- 8. Solve the equations for the unknown: a) $x^2 = 289$ b) $n^2 = 361$ c) $c^2 = 529$ d) $k^2 = 841$ e) $z^2 = 961$

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- 22. Determine the perimeter of a square with an area of $6cm^2$
- 23. Write the repeating decimals as fractions: a) $0.4\overline{8}$ b) $0.3\overline{5}$ c) $0.6\overline{3}$ d) $0.7\overline{8}$ e) $0.2\overline{7}$

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