

N3CS19

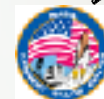
Practice Set 40: SLOPI!

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



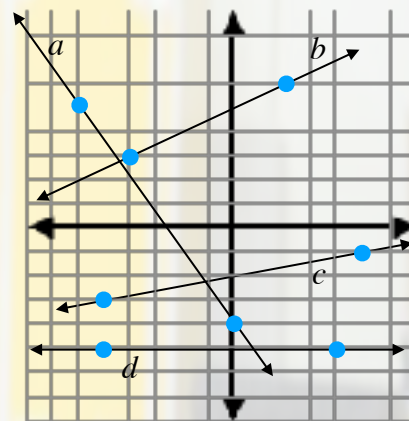
- Evaluate: round your solutions to the nearest 10th
- $8.78 + 9.65$
 - $14.73 - 9.95$
 - $(7.9)(8.4)$
 - $2004 \div 15$
 - Evaluate; write solutions as either a mixed number if the decimal repeats, or a terminating decimal.
 - $11 - 2\frac{3}{5}$
 - $4\frac{2}{3} - 2\frac{7}{9}$
 - $\frac{9}{5} - 1\frac{1}{4}$
 - $3.75 - 2.\bar{6}$
 - Re-write each expression using the Definition of Subtraction, then add:
 - $7 - (-9) =$
 - $12 - 19 =$
 - $-8 - (-15) =$
 - $8 + (7 - 13) =$
 - $13 - (12 - 16) =$
 - Simplify:
 - $6 - 2(x - 5)$
 - $5 - 7(3 - 2x)$
 - $6x - 4(3 - 2x)$
 - $3x - 4(2 - 5x) + 13$
 - Solve for the unknown: express solutions as either mixed numbers if the decimal repeats, or terminating decimals.
 - $\frac{2}{3}n - 3 = -8$
 - $6 - \frac{4}{7}p = -3$
 - $\frac{8}{5}t - 3 = -12$
 - $5 - 6q = -12$

9. Identify the slope and y-intercept of the following slope-intercept form equations:



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

- Gv1 pg. 220 #'s 2, 3, 4, 5
- In the coordinate plane at right; determine the slopes of the stated lines:
 -
 -
 -
 -
- From the slope of letter 'd', what can we say generally about the slope of a horizontal line?
- The height a ball bounces varies directly with how high from which it is dropped. A ball bounces 30cm when dropped from a height of 50cm. How high will the ball bounce if dropped from a height of 120cm?
- Solve the following equations for 'y' in terms of 'x':
 - $x + y = 2$
 - $2x + 3y = 6$
 - $x - 2y = 4$
 - $8x - 6y = 0$



- The next CA Powerball™ lottery is \$550,000,000. The average LAUSD teacher salary is \$75,000.
 - Write each in scientific notation.
 - How many times larger is the Lottery to the teacher salary? Express your answer in standard form and scientific notation, rounded to the nearest 10th.
- Solve: $2(-3x + 4) = -5x + 8 - x$
- Solve: $8(4q - 1) - 12q = 11(2q - 6)$
- A square has an area of $529m^2$; what is the square's perimeter?
- A cube has a volume of $3,375in^3$; what is the cube's surface area?
- Write as exponents positive: $\frac{-15u^6v^5}{-9u^8v^{-2}}$
- Multiply; write as exponents positive: $6ab(3a^2b)^4$
- In scientific notation, what is the sum of $4.7 \cdot 10^8 - 3.141 \cdot 10^7$?
- Evaluate $(2.4 \cdot 10^6)(6.4 \cdot 10^{-2})$; write in scientific notation.

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24. Estimate the quotient: $\frac{\sqrt{40}}{\sqrt{70}}$

25. Estimate the difference: $\sqrt{200} - \sqrt{100}$

26. Solve $E = \frac{1}{2}mv^2$ for 'v' in terms of E and m .

27. State the property that justifies each step of the following solution:

$$2x + 3y = 3$$

$$2x - 2x + 3y = -2x + 3$$

$$0 + 3y = -2x + 3$$

$$3y = -2x + 3$$

$$y = \frac{-2x}{3} + \frac{3}{3}$$

$$y = -\frac{2x}{3} + 1$$

