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

1. $65.81 + 17.79$
2. $78.04 - 29.89$
3. $(84.3)(79.2)$
4. $1991 \div 30$
5. Evaluate; write solutions as either a mixed number if the decimal repeats, or a terminating decimal.
   a) $7.25 - 2.3\overline{6}$
6. Re-write each expression using the Definition of Subtraction, then add:
   a) $-46 - (13 - 26)$
7. Simplify:
   a) $17x - 8(9 - 6x) + 53$

8. Solve for the unknown: express solutions as either mixed numbers if the decimal repeats, or terminating decimals.
   a) $\frac{7}{5}n - 3 = -9$ b) $18 - \frac{9}{4}p = -6$ c) $23 - 6q = -8$

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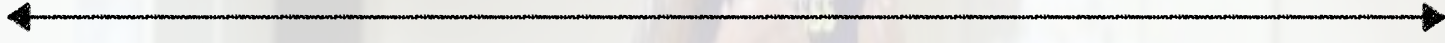
9. Determine the slope-intercept form of a line that passes through the given point with the given slope:
   a) $m = 2; (-3,1)$ b) $m = \frac{3}{2}; (0,3)$

10. Determine the slope-intercept form of a line that passes through the given points:
    a) $(3,4); (2,6)$ b) $(3,-1); (6,7)$

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12. Anthony Allen is eating 72 oz. of potato chips in a bowl on his table while playing video games. He eats them 3oz at a time. His dog, Lil'Bogard, tries to steal his potato chips, and gobbles 6oz at a time.
    a) Model as an equation of Anthony (x) and his dog (y) eating 72 oz. of potato chips.
    b) Graph this relationship and interpret the axis intercepts.

13. Write the following equations in slope-intercept form and graph them
    a. $2x - 4y = -8$ b. $2x + 6y = -18$

14. Use the slope formula, $m = \dfrac{y_2 - y_1}{x_2 - x_1}$, to find the slope between the given two points.
    a) $(-6,-9); (6,-3)$

15. Determine the slope-intercept form of the line in the figure below:
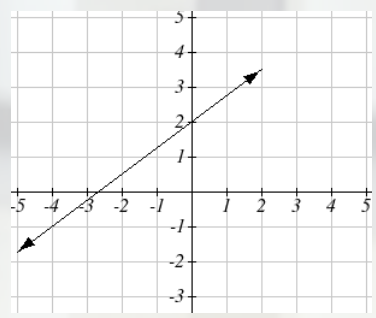
16. The number of calories in a container of milk is directly proportional to the amount of milk in the container. If there are 160 calories in an 8 oz glass of milk, find the number of calories in a 15 oz glass of milk.

17. Solve: $6(x - 4) + 12 = 2(3x - 6)$

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18. Solve: $5x - \dfrac{1}{6}(12 - 18x) - 9 = 4x - 5(6 - 7x) - 8$

19. A square has an area of $841m^2$; what is the square's perimeter?

20. A cube has a volume of $125in^3$; what is the cube's surface area?

21. Write as exponents positive: $\dfrac{-40u^{-8}v^{-8}}{18u^{-10}v^{-6}}$

22. Multiply; write as exponents positive: $6a^5b^{-3}(6a^{-2}b)^2$

23. In scientific notation, what is the difference of $3.78 \bullet 10^8 - 9.996 \bullet 10^7$?

24. Since $\sqrt{49} = 7$ and $\sqrt{64} = 8$, which would be a reasonable value for $\sqrt{59}$?
    A) 6.24 B) 7.68   C) 8.31 D) 9.43

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25. Last night I discovered a large blue-white star that was 12,300 million years old. The Earth is over 4,600 million years old.
   a) Write both of these values in Scientific notation
    b) How many times older is this blue-white star to Earth?
    Perform your calculations in scientific notation; round your decimal answers to the nearest 10th

26.
Jeffrey and Fumi walk at different speeds. Fumi's walking speed can be represented by the equation *y = 85x,* where *x* is the time in minutes and *y* is the distance in meters. The distance Jeffrey walked over time is shown in the graph below. Which of the statements below is true.

JEFFREY'S DISTANCE WALKED OVER TIME

(10, 800)
(5, 400)

Distance (in meters)
Time (in minutes)
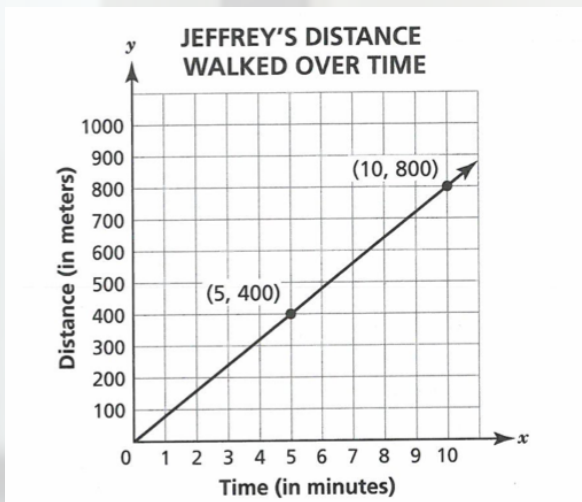
A. Jeffrey walks 5 meters per minute faster than Fumi.

B. Jeffrey walks 10 meters per minute faster than Fumi.

C. Jeffrey walks 5 meters per minute slower than Fumi.