Bellwork: Algebra

1. Write down your work for the week in your planner.
2. Make sure you are working on Section 1: Topic 1 and 4 DUE TOMORROW.
3. Test corrections are also DUE TOMORROW.
4. Answer the following two questions on your bellwork in the MONDAY box:

$2x^3 \cdot x^8 = 2x^{11}$

$$\frac{(2x^3)(x^4)^2}{8x^{11}} = \frac{2x^{11}}{8x^{11}} \quad \frac{2}{8}$$

$$\frac{x^4}{x^4} = x^0$$

$x^1 \cdot x^1$

What value of m would make this true?

$$(x^m \cdot x^2)^3 (k^3)^5 = x^{21} k^{15}$$

5

$$8x^3 + 2x^3$$

$10x^3$

$10x^6$

$$3a^5b^2 - 7a^5b^2$$

-4

$-4a^5b^2$

10

$10a^5b^2$

$m^4 \cdot m^5$

m^9

m^{20}

$c^3 d^1 \cdot c^1 d^6$

$c^4 d^7$

$-3w^2 \cdot -4w^6$

$-7w^8$

$12w^8$

$-12w^8$

$$(12a^2b^2)\cdot\left(\frac{3}{4}a^3b^4\right)$$

$\frac{1}{3}$

3

$\frac{12}{1}\cdot\frac{3}{4} = \frac{36}{4}\ 9a^5b^6$

$$7y^{1} \cdot (-2y^{3}) + 9y^{4}$$

$$-14y^{4} + 9y^{4}$$

$$-5y^{4}$$

$$9p^{12}q^{7} - 2p^{5}q^{6} \cdot 4p^{7}q^{1}$$

$$9p^{12}q^{7} - 8p^{12}q^{9}$$

$$1p^{12}q^{7}$$

$$(k^4)^5$$

$$k^{20}$$

$(2m^5)^3$

$8m^{15}$

$2m^{15}$

$6m^{15}$

$16m^{15}$

$8m^{15}$

$$\left(-\mathbf{6}a^{5}\right)^{2}$$

$$\left(-3x^6y^4\right)^3$$

$$-27x^{18}y^{12}$$

$$\left(8r^5s^2\right)^2 - 13r^{10}s^4$$

$$(-m^3n^4)^4 - 8m^{12}n^{16}$$

$$\frac{w^7}{w^4}$$

$$\frac{36c^{8}}{4c^{4}}$$

$$\frac{x^{15}\cancel{y}^{2}z^{10}}{x^{8}\cancel{y}^{2}z^{2}}$$

$x^{7}z^{8}$

$$\frac{-24p^{20}q^{18}}{8p^{4}q^{12}}$$

$$\frac{8mn^5}{2mn} + 19n^4$$

$$2x^{8}y^{15} - \frac{40x^{10}y^{24}}{5x^{2}y^{9}}$$

$$a^{-7}b^{2}c^{-1}$$

$$\frac{2n^{-5}p^{0}}{m^{-2}}$$

$$\frac{x^{-1} y^{6}}{x^{-9} y^{7}}$$

$$\frac{-42wv^{8}}{6w^{3}v^{-2}}$$

$$\frac{\left(-6a^{3}b^{2}\right)^{2}}{4a^{4}b^{11}}$$

$$\left(\frac{20x^{10}y^{2}}{5x^{3}y^{7}}\right)^{-2}$$

Write the perimeter and area of the figure below as a simplified expression.