

GGG Check-in

Complete the half sheet Check-In **on your own**. This should only take a few minutes.

Don't forget to show your thinking!

Warm Up

1/5

The rangers at the local nature preserve are keeping track of how many deer there are. The population is growing exponentially.

After year 1 there are 320 deer. After year 2 there are 344.

What is the growth factor?

$$344/320 = 1.075$$

What is the growth rate?

$$7.5\%$$

Write an equation to calculate how many deer (d) there will be after y years.

$$d = 298(1.075)^y$$

Simplify:

$$2x^3y^5 \cdot (3x^3)^2$$

~~$18x^{12}y^5$~~ $18x^9y^5$

When in doubt, expand it out!

$$2x^3y^5 \cdot (3x^3)^2$$

$$2 \cdot x^3 \cdot y^5 \cdot 3 \cdot x^3 \cdot 3x^3$$

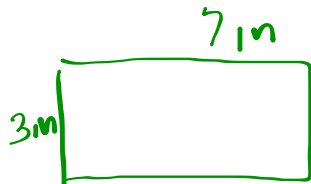
$$= 18x^9y^5$$

Using the MCAS Reference Sheet

To find area of rectangle

Write the formula you will use:

$$A = L \cdot W \quad \text{or} \quad A = b \cdot h$$



- substitute in values you know
 - multiply
 - write answer
- $$\begin{aligned} A &= L \cdot W \\ &= 3 \cdot 7 \\ &= 21 \\ &21 \text{ in}^2 \end{aligned}$$



8-1 Practice

Multiplying Monomials

WHEN IN DOUBT, EXPAND IT OUT!

Simplify.

3. $(-5x^2y)(3x^4)$

4. $(2ab^2c^2)(4a^3b^2c^2)$

5. $(3cd^4)(-2c^2)$

6. $(4g^3h)(-2g^5)$

7. $(-15xy^4)\left(-\frac{1}{3}xy^3\right)$

8. $(-xy)^3(xz)$

9. $(-18m^2n)^2\left(-\frac{1}{6}mn^2\right)$

10. $(0.2a^2b^3)^2$

11. $\left(\frac{2}{3}p\right)^2$

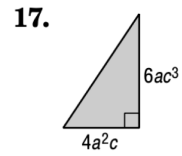
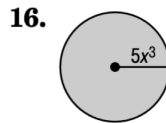
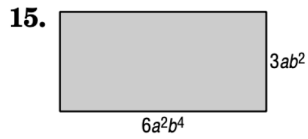
12. $\left(\frac{1}{4}cd^3\right)^2$

13. $(0.4k^3)^3$

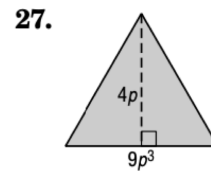
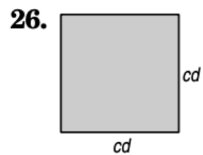
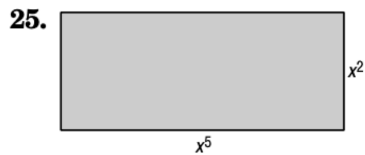
14. $[(4^2)^2]^2$

Using the MCAS Reference Sheet, find the areas and volumes of the following figures. **Always write the formula you will be using first before substituting in values.** Use 3.14 for the value of π .

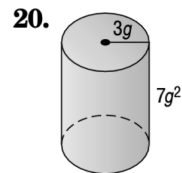
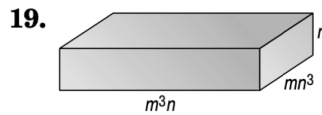
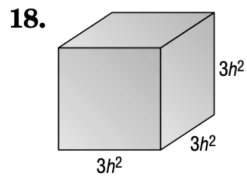
GEOMETRY Express the area of each figure as a monomial.



GEOMETRY Express the area of each figure as a monomial.



GEOMETRY Express the volume of each solid as a monomial.



Homework

Finish classwork