

Welcome Back!

You have 3min to complete Opening Checklist.

Do Now (10 points) – Copy the Objective and define the Word of the Day.

Obj: **IWBAT divide powers and use zero and negative exponents.**

Word of
the Day
& Defn:

Monomial: a term that has no addition or subtraction, just multiplication and/or division

/10

Skill Review (10 points) – Show ALL work necessary.

1) $(3xy^2)(2x^3y^{-1})$

2) $-7ab \cdot 4a^2b^5$

3) $(k^3)^5$

4) $(3n^2)^3$

5) $(5n^3)^2(2n^3)^3$

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

/10

Grading Tracker

Name _____ Pd _____ Quarter _____

	Date	Section	Topic (from objective)	CW %	ET %	Q %	T %
1							
2							
3							
4							
5							

- Write the date from your graded Path to Success.
- Write the section from your graded Path to Success.
- Write the topic from the whiteboard.
- Write the % you earned overall for this classwork.
- Write the % you earned on your exit ticket.
- The Q% and T% columns will wait.
- Keep your Grading Tracker and your graded Path to Success in your folder.

Exit Ticket Review – 2P1

- 1st/2nd: 64%

Exit Ticket (10 points) – Complete INDEPENDENTLY and SILENTLY.

Initials

Simplify.

1) $7u^2v^5 \cdot 9uv^3$

2) $(4a^3)^2$

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Dividing Powers

Same base → subtract exponents

Divide coefficients and reduce fractions.

Why It Works

Examples

1)

2)

Quotient of Powers

Zero & Negative Exponents

Exponent of Zero

Why It Works

Examples

1)

2)

3)

Negative Exponents

Why It Works

Examples

1)

2)

Zero & Negative Exponents

Exponent of Zero

Anything raised to the power of 0 is 1.

Why It Works

Examples

1)

2)

3)

Negative Exponents

A negative exponent flips the base top \leftrightarrow bottom.

After the flip, the exponent becomes positive.

Why It Works

Examples

1)

2)

3)

Put It All Together

Simplify.

1) $\frac{4n^9}{2n^6}$

2) $\frac{2k^8}{8k^5}$

3) $\frac{3n^4}{3n^3}$

4) $\frac{7m^5n^7}{21m^2n}$

5) $\frac{4m^4n^3p^3}{3m^2n^2p^4}$

6) $\frac{x^4y^{-3}}{2x^4}$

7) $(x^2)^0$

8) $(4r^0)^3$

9) $(2x^2)^{-4}$

10) $\left(\frac{x^2}{y^{-1}}\right)^2$

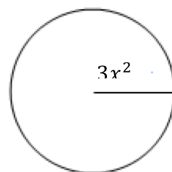
11) $(2x^4y^{-3})^{-1}$

12) $4r^{-3} \cdot 2r^2$

13) $4a^3b^2 \cdot 3a^{-4}b^{-3}$

14) $\frac{4x^0y^{-2}z^3}{4x}$

15) $\frac{48b^0(c^2)^3}{d^2} \cdot \frac{d^2}{6c^8}$

16) Write an expression for the area of the circle (recall formula $A = \pi r^2$).

Complete the problems on the back of your PtS.

****Ask your group for help before you ask me.**

****Level 1 or 2 voice.**

When you finish, **SHOW ME** to get your computer to work on IXL.

Exit Ticket

- SILENTLY (Level 0) and INDEPENDENTLY answer these questions on the bottom of the front of your Path to Success.
- You don't need to copy the questions, just write the numbers and your answers.

Exit Ticket (10 points) – Complete INDEPENDENTLY and SILENTLY.

Initials

Simplify. Write your answer with NO NEGATIVE exponents.

1) $(a^{-3}b^{-3})^0$

2) $\frac{h^3}{h^5}$

3) $\frac{10x^5y}{5x^2y^3}$

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