**Math 9 Multiplying/Dividing Polynomials: Row Partners Activity**

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| --- | --- | --- |
| Question List #1 | Answers *(Should be the same for both sides)* | Question List #2 |
| $$(-2x^{2})(-18x^{2})$$ | $$36x^{4}$$ | $$(4x)(9x^{3})$$ |
| $$(-6ab^{3})(8a^{4})$$ | $$-48a^{5}b^{3}$$ | $$(24a^{2}b^{2})(-2a^{3}b)$$ |
| $$2(-3x+6)$$ | $$-6x+12$$ | $$-3(2x-4)$$ |
| $$5y(-y+3)$$ | $$-5y^{2}+15y$$ | $$-y(5y-15)$$ |
| $$-2t^{2}(-9-3t^{2})$$ | $$6t^{4}+18t^{2}$$ | $$-3t^{2}(-2t^{2}-6)$$ |
| $$-2x(2x^{2}-4x+12)$$ | $$-4x^{3}+8x^{2}-24x$$ | $$4x(-x^{2}+2x-6)$$ |
| $$-7xy(-6y+18x)$$ | $$-126x^{2}y+42xy^{2}$$ | $$6xy(-21x+7y)$$ |
| $$\frac{6x^{3}}{3x}$$ | $$2x^{2}$$ | $$\frac{4x^{4}}{2x^{2}}$$ |
| $$\frac{15x^{4}y^{2}}{3xy}$$ | $$5x^{3}y$$ | $$\frac{10x^{4}y^{3}}{2xy^{2}}$$ |
| $$\frac{3x-6}{3}$$ | $$x-2$$ | $$\frac{6x-12}{6}$$ |
| $$\frac{8y^{2}-4y}{-2y}$$ | $$-4y+2$$ | $$\frac{12y^{2}-6y}{-3y}$$ |
| $$\frac{3x^{4}+18x^{3}+9x^{2}}{3x^{2}}$$ | $$x^{2}+6x+3$$ | $$\frac{2x^{4}+12x^{3}+6x^{2}}{2x^{2}}$$ |
| $$-2(3x^{2}-2x+1)-\frac{9x^{2}+6x-3}{3}$$ | $$-9x^{2}+2x-1$$ | $$\frac{8x^{2}+6x+2}{-2}-5x(x-1)$$ |
| Find the heightA picture containing object  Description automatically generated | $$6x^{2}-2x$$ | Find the heightA screenshot of a cell phone  Description automatically generated |
| Find the surface area of the boxA picture containing athletic game, sport  Description automatically generated | $$8x^{2}+20x-6$$ | Find the surface area of the boxA picture containing athletic game, sport  Description automatically generated |

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| $$5y(-y+3)$$ |  | $$-y(5y-15)$$ |
| $$-2t^{2}(-9-3t^{2})$$ |  | $$-3t^{2}(-2t^{2}-6)$$ |
| $$-2x(2x^{2}-4x+12)$$ |  | $$4x(-x^{2}+2x-6)$$ |
| $$-7xy(-6y+18x)$$ |  | $$6xy(-21x+7y)$$ |
| $$\frac{6x^{3}}{3x}$$ |  | $$\frac{4x^{4}}{2x^{2}}$$ |
| $$\frac{15x^{4}y^{2}}{3xy}$$ |  | $$\frac{10x^{4}y^{3}}{2xy^{2}}$$ |
| $$\frac{3x-6}{3}$$ |  | $$\frac{6x-12}{6}$$ |
| $$\frac{8y^{2}-4y}{-2y}$$ |  | $$\frac{12y^{2}-6y}{-3y}$$ |
| $$\frac{3x^{4}+18x^{3}+9x^{2}}{3x^{2}}$$ |  | $$\frac{2x^{4}+12x^{3}+6x^{2}}{2x^{2}}$$ |
| $$-2(3x^{2}-2x+1)-\frac{9x^{2}+6x-3}{3}$$ |  | $$\frac{8x^{2}+6x+2}{-2}-5x(x-1)$$ |
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