

Assessment Title: Take a Chance on Polynomials

Unit 2: Quadratic Functions: Representations

Learning Targets:

- To be able to add, subtract, and multiply polynomials.
- To be able to use the structure of expressions and identify ways to rewrite it.

Directions:

With your partner, complete 14 trials of the activity described below using your deck of poly-cards and your 6-sided hexahedron.

For each trial, do the following:

1. Hold the deck of poly-cards out for your partner to choose 2.
2. Glue/tape the two chosen cards in the space provided for each trial.
3. Roll the die to determine the operation and record it for each trial.
4. With your partner, perform the operation indicated on the die to your polynomials.
5. Write your final answer as one polynomial in standard form.
6. Repeat steps 1-5 for each trial.

Trial #1:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #2:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #3:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #4:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #5:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #6:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #7:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #8:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #9:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #10:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #11:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #12:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #13:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Trial #14:

Card #1



Operation Rolled



Card #2



Rewrite the expression above, perform the indicated operation, simplify completely, and show all work:

Final Answer: _____

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Enrichment/Extra Credit: Ask your teacher to choose 3 poly-cards from the “enrichment set” and follow the same directions for each of the previous trials.

| Card #1 | Operation | Card #2 | Operation | Card #3 |
|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |

Perform the indicated operations and show all work:

Final Answer: _____