

Multiplying & Dividing Integers

Name: _____ Date: _____

LEARNING OBJECTIVE

Students will apply sign rules to multiply and divide integers accurately.

MATERIALS NEEDED

- 2 dice
- index cards
- pen or pencil
- notebook paper

HANDS-ON ACTIVITY

1. On 6 index cards, write a positive or negative sign (+, -) three of each, and shuffle them face down.
2. Roll 2 dice to get two numbers 1-6. Flip 2 sign cards to assign a sign to each number, forming an integer multiplication problem (example: dice show 4 and 3, cards show - and +, so the problem is -4×3).
3. Solve the problem, then repeat the roll-and-flip process 4 more times, alternating between multiplication and division problems (5 problems total).
4. Using your 5 results, write the sign rule pattern you notice (e.g., 'negative times positive = ____') on notebook paper.

QUESTIONS

1. Write one of your multiplication problems and its answer.

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2. What is the sign of the answer when you multiply two negative integers? Give an example from your rolls or a new one.

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3. What is $-20 \div 4$? What is $20 \div -4$? Are the answers the same or different, and why?

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4. Summarize the full sign rule pattern for multiplying/dividing two integers.

