

Integer Power Moves

Multiply and divide positive and negative integers.

GRADE 6 • MA.6.NSO.4.2

MA.6.NSO.4.2 "Apply and extend previous understandings of operations with whole numbers to multiply and divide integers with procedural fluency."

NAME _____

DATE _____

SIGN RULES

First, multiply or divide the absolute values. Numbers with the same sign have a positive answer, and numbers with different signs have a negative answer. Check the sign before you write your final answer.

WORKED EXAMPLE

$$-9 \times 4$$

1. Multiply the absolute values: $9 \times 4 = 36$.

2. The signs are different, so the answer is negative.

Answer: -36

PRACTICE 6 problems

1 $-7 \times 6 =$

ANSWER _____

2 $56 \div -8 =$

ANSWER _____

3 $-5 \times -11 =$

ANSWER _____

4 $-72 \div -12 =$

ANSWER _____

5 $13 \times -3 =$

ANSWER _____

6 $-63 \div 7 =$

ANSWER _____

APPLY IT Show your work

- 1** In a video game, a player loses 8 points for each penalty. The player gets 7 penalties. What is the player's total score change?

WORK SPACE

ANSWER _____

- 2** A skateboard club's team score changed by -84 points over 12 rounds. The change was equal in every round. What was the score change each round?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Evaluate: $-96 \div (-8 \times 2)$

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$-7 \times 6 =$	-42
2	$56 \div -8 =$	-7
3	$-5 \times -11 =$	55
4	$-72 \div -12 =$	6
5	$13 \times -3 =$	-39
6	$-63 \div 7 =$	-9

PART 2 • APPLY IT

1. **-56 points** Multiply -8 points per penalty by 7 penalties. The score change is -56 points.
2. **-7 points per round** Divide -84 by 12. The score changed by -7 points each round.

CHALLENGE

6

Accept answers written with or without an equals sign. For word problems, accept the correct integer when the unit is clear.