LESSON MAKER PRO

Integer Power Moves

Add, subtract, multiply, and divide signed numbers.

GRADE 6 · MA.6.NSO.4

MA.6.NSO.4 "Extend understanding of operations with integers."

NAME _____ DATE _____

INTEGER OPERATION RULES

To add integers with different signs, subtract their absolute values and use the sign of the number farther from zero. To subtract an integer, add its opposite. For multiplication and division, matching signs give a positive answer, and different signs give a negative answer.

WORKED EXAMPLE

Find: -14 + 12

1. The signs are different, so subtract: 14 - 12 = 2.
2. The number with the larger absolute value is -14; its absolute value is positive 14, so use the negative sign of -14.
3. The sum is -2.

Answer: -2

PRACTICE 6 problems

1 -8 + 13 = ?

ANSWER _____

2 17 - 24 = ?

ANSWER _____

3 -6 - 11 = ?

ANSWER _____

4 (-7) * (-4) = ?

ANSWER _____

5 45 / (-5) = ?

ANSWER _____

6 (-36) / 9 = ?

ANSWER _____

APPLY IT Show your work

1 In a mobile game, Kai starts with 18 points. Kai loses 25 points in one round, then earns 6 points in the next round. What is Kai's final score?

WORK SPACE

ANSWER _____

2 A drone drops 48 feet while filming a skateboard video. The drop is split equally across 6 clips. What is the change in altitude during each clip?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Evaluate: -15 + 4 * (-6) - (-3)

WORK SPACE AND ANSWER

ANSWER KEY

Integer Power Moves

GRADE 6 · MA.6.NSO.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	-8 + 13 = ?	**5**
2	17 - 24 = ?	**-7**
3	-6 - 11 = ?	**-17**
4	(-7) * (-4) = ?	**28**
5	45 / (-5) = ?	**-9**
6	(-36) / 9 = ?	**-4**

PART 2 · APPLY IT

1. **-1 point** Compute 18 - 25 + 6. The final score is -1 point.
2. **-8 feet per clip** Represent the total change as -48 feet and divide: -48 / 6 = -8. Each clip shows a change of -8 feet.

CHALLENGE

-36

Accept equivalent integer notation, such as -1 without the word point. For the challenge, students should multiply before adding and subtracting.