LESSON MAKER PRO

Sign Sense

Practice, apply, and challenge your integer skills.

GRADE 7 · 7.N.2.3

7.N.2.3 "Multiply and divide integers in a variety of situations; use efficient and generalizable procedures, including standard algorithms."

NAME _____ DATE _____

THE SIGN RULE

To multiply or divide integers, first work with their absolute values. If the numbers have the same sign, the answer is positive. If their signs differ, the answer is negative.

WORKED EXAMPLE

Find (-17) × 2.

1. Multiply the absolute values: 17 × 2 = 34.
2. The signs differ, so the product is negative.

Answer: -34

PRACTICE 6 problems

1 Find (-4) × 11.

ANSWER _____

2 Find 12 × (-5).

ANSWER _____

3 Find (-3) × (-14).

ANSWER _____

4 Find (-96) / 12.

ANSWER _____

5 Find 75 / (-15).

ANSWER _____

6 Find (-84) / (-4).

ANSWER _____

APPLY IT Show your work

1 In a game, you lose 13 points each time you hit a trap. You hit 5 traps. What is your total change in score?

WORK SPACE

ANSWER _____

2 Twelve friends split a $108 cost for concert tickets equally. Each friend's account goes down by the same amount. What is the change in each account?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Evaluate [(-30) / 5] × (-4) + (-6) × 3. Show the order you use.

WORK SPACE AND ANSWER

ANSWER KEY

Sign Sense

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find (-4) × 11.	**-44**
2	Find 12 × (-5).	**-60**
3	Find (-3) × (-14).	**42**
4	Find (-96) / 12.	**-8**
5	Find 75 / (-15).	**-5**
6	Find (-84) / (-4).	**21**

PART 2 · APPLY IT

1. **-65 points** Multiply the change for one trap by the number of traps: (-13) × 5 = -65.
2. **-$9** The total change is -$108. Divide by 12 friends: (-108) / 12 = -9.

CHALLENGE

6; first, (-30) / 5 = -6. Then (-6) × (-4) = 24 and (-6) × 3 = -18. Finally, 24 + (-18) = 6.

For the word problems, accept a negative number with the correct unit or a clear statement that the score or account decreases. For the challenge, accept any work that correctly follows the order of operations.