

Algebra I
3.2 Classwork
Integer Subtraction

NAME: _____
DATE: _____ HOUR: _____

No calculators.

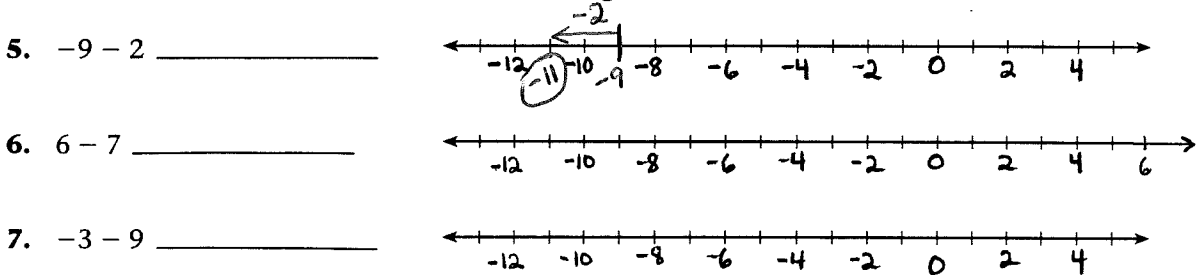
Part I. Completion

- Subtraction Means A _____ T _____ O _____ (SMATO).
- Name the three meanings of the “-“ symbol:
 - _____
 - _____
 - _____
- Which number is its own opposite? _____
- Adding a negative is the same as _____.

Part II. **Write each subtraction problem as an addition problem and then solve.**

- $3 - 6$ $3 + (-6) =$ _____
- $3 - (-9)$ _____
- $-2 - (-3)$ _____
- $-7.8 - (-5)$ _____

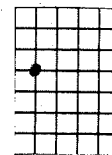
Use a number line to evaluate the following.



Find the solution to the following subtraction problems.

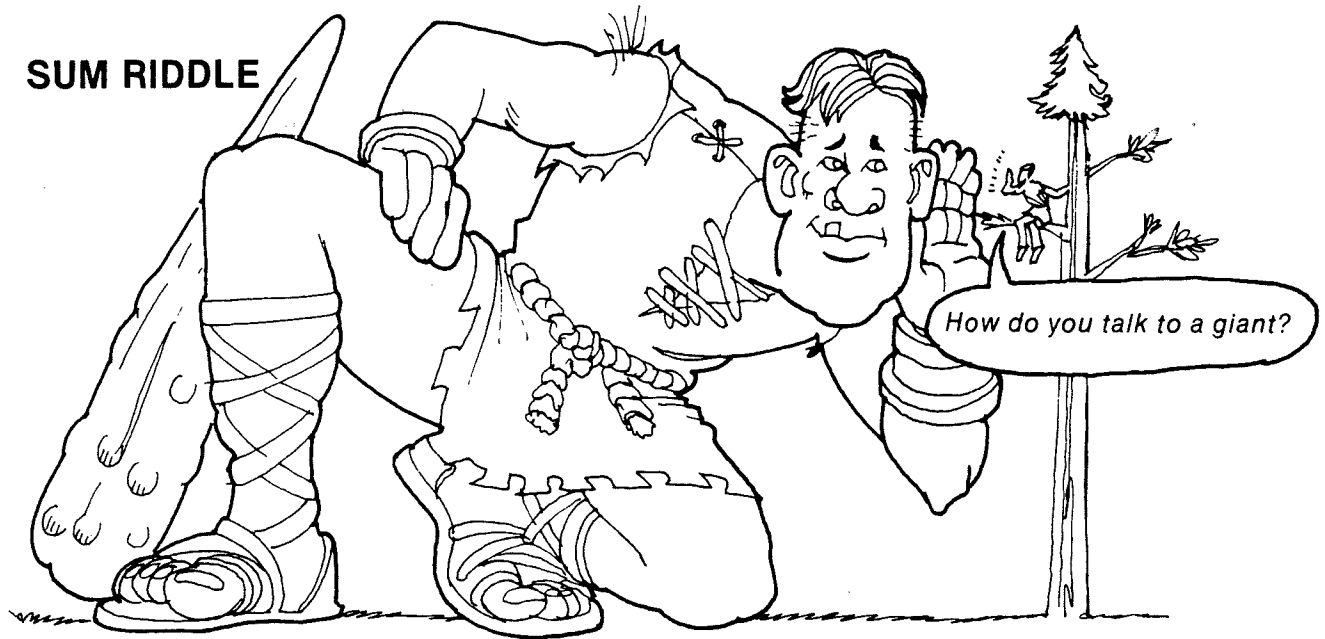
- $-9 - (-9)$ _____
- $-4 - 8$ _____
- $-3 - (-5)$ _____
- $-1.1 - (-2.9)$ _____
- $-1 - 1.41$ _____
- $-3 - (-3.8)$ _____
- $-3 - 2$ _____
- $47 - 67$ _____
- $-6 - 16$ _____
- $-1 - (-2)$ _____
- $-6 - 8 - 2$ _____
- $-5 - (-6) - 1$ _____

20. Mary left her home and walked 2 mi north, 3 mi east, 5 mi south, and 3 mi west. How far is Mary from her home?



21. René Descartes was born in 1596 and died in 1650. How old was he when he died?

SUM RIDDLE



Use a ruler to match equal sums. The letters without lines through them spell out the answer. Complete all problems then match answers.

| | | | | |
|------------------------|--------------|---------------------|--------------|------------------------|
| 1. $+7 + +2$ <u>9</u> | | $-2 + -1$ | | $+3 + +1$ |
| 2. $+6 + -5$ <u>1</u> | | $+5 + +6$ | H | 9 $+5 + +4$ |
| 3. $-9 + +6$ <u>-3</u> | S | $+7 + -5$ | B | $-10 + +2$ |
| 4. $-3 + -5$ | U | <u>9</u> $+10 + -1$ | R | $+13 + -2$ |
| 5. $+7 + +4$ | L | $+1 + 0$ | I | $-5 + +2$ |
| 6. $-3 + +7$ | L | $-5 + -1$ | G | $-7 + +2$ |
| 7. $-9 + +11$ | K | $-6 + +10$ | H | $-8 + +10$ |
| 8. $+5 + -10$ | F | $-6 + -2$ | A | $-3 + +4$ |
| 9. $-13 + -6$ | E | $-10 + +10$ | W | $-20 + +1$ |
| 10. $-12 + +6$ | O | $-10 + -9$ | N | $+3 + -3$ |
| 11. $-7 + +7$ | A | $-4 + -1$ | L | $-8 + -2$ |
| 12. $+8 + -1$ | T | $-20 + +2$ | R | $-9 + +3$ |
| 13. $-9 + -9$ | I | $+5 + -15$ | D | $-10 + -8$ |
| 14. $-6 + -4$ | W | $-3 + +10$ | D | $+6 + +1$ |
| | T | | S | |
| | | | W | |

Answer: _____

Find the opposite of each number.

- 3 _____
- 7 _____
- $-(-8)$ _____
- 0 _____
- 6.1 _____
- $-(0.1 + 6.7)$ _____