

Name _____

1-1A Lesson Master**Questions on SPUR Objectives**

See pages 60–63 for objectives.*

VOCABULARY

In 1–4, match the name of the algebraic definition or property with its representation using variables where a , b , c are real numbers.

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|---|-------|
| 1. Algebraic Definition of Subtraction | _____ |
| 2. Algebraic Definition of Division | _____ |
| 3. Associative Property of Multiplication | _____ |
| 4. Associative Property of Addition | _____ |
- | | |
|-------------------------------|--|
| A $(ab)c = a(bc)$ | B $a - b = a + -b$ |
| C $(a + b) + c = a + (b + c)$ | D $a \div b = a \cdot \frac{1}{b}$ if $b \neq 0$ |

SKILLS Objective A

In 5 and 6, state the first operation performed and evaluate each expression.

- | | |
|---------------------|-------------------------|
| 5. $\sqrt{(3 + 6)}$ | 6. $(14 \cdot 4 + 7)^2$ |
| _____ | _____ |

In 7 and 8, evaluate the algebraic expression for the given value of the variable.

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|------------------------|---|
| 7. $5a^4$ for $a = -6$ | 8. $\left(\frac{x+y}{x-y}\right)^2$ for $x = 9$ and $y = 5$ |
| _____ | _____ |

PROPERTIES Objectives F, G

In 9 and 10, rewrite the expression using addition instead of subtraction.

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|------------|-----------------------|
| 9. $3 - 7$ | 10. $(7 - 5) \cdot 4$ |
| _____ | _____ |

In 11 and 12, rewrite the expression using multiplication instead of division.

- | | |
|-----------------|----------------------|
| 11. $4 \div 11$ | 12. $(8 + 5) \div 8$ |
| _____ | _____ |

13. If $x + 58 = y + 15$ and $y + 15 = w$, what conclusion can be made based on the Transitive Property of Equality? _____

*See the Student Edition for SPUR objectives.