EXTRA PRACTICE - Exercises

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Unit I – The Structure of Mathematics Part D – Further Investigation of Relation Symbols Lesson 2 – Properties of Equality

Determine which of the following statements are true and which are false. If a statement is true, tell which property of equality is illustrated.

1. $\sqrt{16} = 32 \div 2$	2. If $5 = x + 2$, then $x + 2 = 5$
3. If 9+6 < 4 8, then 4 8 < 9 + 6.	4. $27 \div 9 = \sqrt{3}$
5. If $7 = x + 3$, then $4 = x$	6. $32 \div 2 > 4^2$
7. If $^{-}4x = 12$, then $x = ^{-}3$	8. If $9 = 3$ 3 and 3 $3 = 36 \div 4$, then $9 = 36 \div 4$

In each of the following, perform the indicated operations on the given equation one at a time indicating what the resultin sentence is.

9. For 2 3 = $\frac{18}{3}$	10. For 29–8=14+7
a. Mult. ⁺ 3	a. Add – 7
b. Mult. $+\frac{1}{2}$	b. Add +15
11. For $\frac{42}{7} = 2$ 3	12. For $\frac{9}{12} = \frac{3}{4}$
a. Mult7	a. Mult. ⁺ 12
b. Mult. $-\frac{1}{3}$	b. Mult. $\frac{-1}{3}$

13. For 16 - 20 = 3 + 1

a. Add + 20 b. Mult. $\frac{1}{4}$

EXTRA PRACTICE — Answer Key

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Determine which of the following statements are true and which are false. If a statement is true, tell which property of equality is illustrated.

1. False	2. True, Symmetric Property of Equality	
3. False	4. False	
5. True, Addition Property of Equality	6. False	
7. True, Multiplication Property of Equality	8. True, Transitive Property of Equality	

In each of the following, perform the indicated operations on the given equation one at a time indicating what the resultin sentence is.

9.		10.		
	a. 18 = 18		a.	14 = 14
	b. 9 = 9		b.	29 = 29
11.		12.		

a.	-42 = -42	a.	9 = 9
b.	14 = 14	b.	-3 = -3

a. 16 = 16

b. 4 = 4