Name	Date	Page 1						
Equations Skill 4 - 6G								
Balance Equations								
Answer to test question grade 4 skill 60	a 8 = 2	: x 4						
1. Multiply both sides of the equat	tion by 3. \longrightarrow 8 x 3 = (2	2 x 4) x <mark>3</mark>						
	24 = 8	3 x 3						
	24 =	24						
	(7 + 5) =	(4 + 8)						
2. Divide both sides of the equation	on by 3. —— (7 + 5) ÷ 3 =	(4 + 8) ÷ 3						
	12 ÷ 3 =	12 ÷ 3						
	4 =	4						
Did the values of the sides stay equal for both problems? Answer: yes								
Directions: Follow the instructions by each problem below. Multiply both sides of the equation.								
1. $3 = 3$ (multiply both sides by 2)	2. $5 = 5$ (multiply both side	des by 3)						
3. $4 = 4$ (multiply both sides by 5)	4. $2 = 2$ (multiply both side	des by 4)						
5 8 – (2 x 4) (multiply both sides by	2) 6 10 - (2 x 5) (multiply	both sides by 3)						
	(2×3) (manphy)	both sides by 5)						
7. $4 = (2 \times 2)$ (multiply both sides by	3) 8. 16 = (8 x 2) (multiply	both sides by 2)						
9. $9 = (3 \times 3)$ (multiply both sides by	2) 10. 12 = (2 x 6) (multipl	y both sides by 3)						

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Equations
Skill 4 - 6G
Balance Equations
$$(7 + 5) = (4 + 8)$$

 $(7 + 5) \div 3 = (4 + 8) \div 3$
 $12 \div 3 = 12 \div 3$
 $4 = 4$
ructions by each problem below.

Directions: Follow the instr

11. (4 + 2) = (3 + 3) (multiply both sides by 2) **12.** (4 + 3) = (2 + 5) (multiply both sides by 2)

13. (5 + 3) = (2 + 6) (multiply both sides by 2)

15. (7 + 2) = (8 + 1) (multiply both sides by 2)

17. $(4 + 2) = (2 \times 3)$ (divide both sides by 2)

14. (8 + 2) = (4 + 6) (multiply both sides by 2)

16. (2 + 3) = (4 + 1) (multiply both sides by 3)

18. (5 + 2) = (1 + 6) (multiply both sides by 2)

19. (9 + 5) = (6 + 8) (multiply both sides by 2) **20.** $(8 + 2) = (2 \times 5)$ (divide both sides by 2)

21. $14 = (2 \times 7)$ (divide both sides by 2) **22.** $12 = (2 \times 6)$ (divide both sides by 3)

24. $(4 + 6) = (2 \times 5)$ (multiply both sides by 2) **23.** $(4 + 8) = (6 \times 2)$ (multiply both sides by 2)

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E	quations	
S Balance Equations	kill 4 - 6G	
Directions: Follow the instructions by each	problem below.	
25. $(6 + 8) = (7 + 7)$ (multiply both sides by 2	$2) \qquad 26. (15 + 6) = (18 + 3) (16)$	multiply both sides by 2)
	/	., ,
27. (15 + 6) = (3 x 7) (divide both sides by 7	7) 28. 24 = (12 x 2) (divide b	oth sides by 3)
29. 42 = (6 x 7) (divide both sides by 2)	30. 14 = (2 x 7) (multiply be	oth sides by 2)
31. 12 = (2 x 6) (divide both sides by 3)	32. 54 = (9 x 6) (divide bot	h sides by 3)
33. 36 = (12 x 3) (divide both sides by 9)	34. (8 + 4) = (6 + 6) (mult	tiply both sides by 2)
35. 36 = (6 x 6) (divide both sides by 3)	36. 56 = (7 x 8) (divide bot	h sides by 8)
37. $(2 \times 2) = (8 \div 2)$ (multiply both sides by 2)	2) 38. (4 x 4) = (32 ÷ 2) (di	vide both sides by 2)
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Answer Key Skill 4-6G

1.	3 x 2 = 3 x 2 6 = 6	2.	5 x 3 = 5 15 =15	х З	3.	4 x 5 = 20 = 20	4 x 5	4.	2 x 4 = 2 x 4 8 = 8
5.	8 x 2 = (2 x 4) x 2 16 = 8 x 2 16 = 16	6.	10 x 3 = 30 = 30 :	(2 x 5) x 3 10 x 3 = .30	7.	4 x 3 12 1	= (2 x 2) x 3 2 = 4 x 3 12 = .12	8.	$16 \times 2 = (8 \times 2) \times 2$ 32 = 16 x 2 32 = 32
6.	$10 \times 3 = (2 \times 5) \times 3$ $30 = 10 \times 3$ 30 = 30	7.	4 x 3 = (12 = 12	(2 x 2) x 3 4 x 3 = 12	8.	16 x 2 32	e = (8 x 2) x 2 e = 16 x 2 32 = 32	2 9.	9 x 2 = (3 x 3) x 2 18 = 9 x 2 18 = 18
10.	12 x 3 = (2 x 6) x 36 = 12 x 3 36 = 36	κ3	11.	(4 + 2) x 2 6 x 2 12	= (3 = 6 = 12	+ 3) x 2 x 2 2	12.	(4 + 3) 7	x 2 = (2 + 5) x 2 7 x 2 = 7 x 2 14 = 14
13.	$(5+3) \times 2 = (2+6)$ 8 x 2 = 8 x 2 16 = 16) x 2	14.	(8 + 2) x 2 10 x 2 20	= (4 = 10 = 20	+ 6) x 2) x 2)	15.	(7 + 2 ç) x 2 = (8 + 1) x 2 9 x 2 = 9 x 2 18 = 18
16.	(2 + 3) x 3 = (4 + 1 5 x 3 = 5 x 3 15 = 15) x 3	17.	(4 + 2) ÷ 2 6 ÷ 2 3	= (2 = 6 = 3	x 3) ÷ 2 ÷ 2	18.	(5 + 2 7) x 2 = (1 + 6) x 2 7 x 2 = 7 x 2 14 = 14
19.	$(9+5) \times 2 = (6+8)$ 14 x 2 = 14 x 2 28 = 28) x 2	20 .	(8 + 2) ÷ 2 10 ÷ 2 5	= (2 = 1(= 5	x 5) ÷ 2) ÷ 2	21.	14 -	÷ 2 =(2 x 7) ÷ 2 7 = 14 ÷ 2 7 = 7
22.	$12 \div 3 = (2 \times 6) \div 4 = 12 \div 3 4 = 4$	- 3	23.	(4 + 8) x 2 12 x 2 24	= (6 = 12 = 24	x 2) x 2 2 x 2 I	24.	(4 + 6 10	x 2 = (2 x 5) x 2 x 2 = 10 x 2 20 = 20
25.	$(6 + 8) \times 2 = (7 + 7)$ 14 x 2 = 14 x 2 28 = 28) x 2	26 .	(15 + 6) x 2 21 x 2 42	= (1 = 21 = 42	8 + 3) x : x 2 <u>2</u>	2 27 .	(15 + 6 21	
28.	$24 \div 3 = (12 \times 2) - 8 = 24 \div 3$ 8 = 8	÷ 3	29.	42 ÷ 2 = 21 = 21	(6 x 42 ÷ = 21	7) ÷ 2 - 2	30.	14 >	x 2 = (2 x 7) x 2 28 = 14 x 2 28 = 28
31.	$12 \div 3 = (2 \times 6) \div 4 = 12 \div 3 4 = 4$	- 3	32 .	54 ÷ 3 = 18 = 18	(9 x 54 ÷ = 18	6) ÷ 3 - 3 3	33.	36 ÷	$9 = (12 \times 3) \div 9$ $4 = 36 \div 9$ 4 = 4
34.	$(8 + 4) \times 2 = (6 + 6)$ $12 \times 2 = 12 \times 2$ 24 = 24	6) x 2	35.	36 ÷ 3 = 12 = 12	(6 x 36 ÷ = 12	6) ÷ 3 - 3 2	36.	56 ÷	$3 \div 8 = (7 \times 8) \div 8$ $7 = 56 \div 8$ 7 = 7
37.	$(2 + 2) \times 2 = (8 \div 2)$ 4 x 2 = 4 x 2 8 = 8) x 2	38.	(4 x 4) ÷ 2 16 ÷ 2 8	= (32 = 16 = 8	2 ÷ 2) ÷ 2 6 ÷ 2	2		

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