Name



Fill in the missing numbers to balance the equations.

-								-
1)	12	÷	3	=	10	-		
2)	7	+		=	24	÷	2	
3)	8	х	5	=	17	+		
4)	20	÷	4	=	19	-		
5)		-	6	=	18	÷	9	
6)	33	+		=	6	x	7	
7)	36	÷	4	=	13	-		
8)	30	-		=	30	÷	5	
9)	8	Х		=	24	x	2	
10)	19	-	16	=	21	÷		
11)		-	5	=	36	÷	9	
12)	24	+	27	=	100	-		
13)	28	÷	2	=		-	13	
14)		Х	7	=	70	-	21	
15)	14	-		=	40	÷	5	
16)	28	+	32	=		x	6	
17)		÷	4	=	16	÷	2	
18)	35	÷	7	=		-	3	





Name



BALANCING EQUATION 4B ANSWERS

Fill in the missing numbers to balance the equations.

1)	12	÷	3	=	10	-	<u>6</u>
2)	7	+	<u>5</u>	=	24	÷	2
3)	8	Х	5	=	17	+	<u>23</u>
4)	20	<u>.</u>	4	=	19	-	<u>14</u>
5)	<u>8</u>	-	6	=	18	÷	9
6)	33	+	<u>9</u>	=	6	х	7
7)	36	•	4	=	13	-	<u>4</u>
8)	30	-	<u>24</u>	=	30	÷	5
9)	8	Х	<u>6</u>	=	24	х	2
10)	19	-	16	=	21	÷	<u>7</u>
11)	<u>9</u>	-	5	=	36	÷	9
12)	24	Ŧ	27	=	100	-	<u>49</u>
13)	28	•	2	=	<u>27</u>	-	13
14)	<u>7</u>	Х	7	=	70	-	21
15)	14	-	<u>6</u>	=	40	÷	5
16)	28	+	32	=	<u>10</u>	х	6
17)	<u>32</u>	÷	4	=	16	÷	2
18)	35	÷	7	=	<u>8</u>	-	3
-							



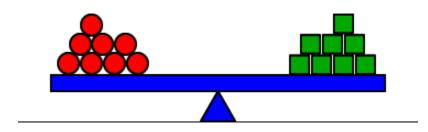
	Balancing Equations	Name:	
Determine the value of		Inallie.	A
1) $M + 43 = 38 + 46$		2) 58 - M = 3×9	Answers
1) WI + 45 = 58 + 40		$2) 38 - M = 5 \times 9$	1.
			2
			3
			4.
3) $16 + 30 = W + 12$		4) Y - $26 = 5 \times 3$	
			5
			6.
			0.
			7
5) $J \times 2 = 10 \times 3$		6) $K + 4 = 17 + 42$	8
$\mathbf{J} \times \mathbf{Z} = 10 \times \mathbf{S}$		b) $\mathbf{K} + 4 - 17 + 42$	9.
			10
$7) 4 \times 7 = \mathbf{Y} \times 2$		8) 76 - $P = 9 \times 8$	
9) $48 + 11 = 91 - N$		10) $9 \times 6 = 23 + M$	
48 + 11 = 91 - N		$9 \times 0 = 23 + M$	
Math	ww.CommonCoreSheets.com 1	1-10 90 80 70	0 60 50 40 30 20 10 0
W	ww.CommonCoreSheets.com		

	Balancing Equations	Name:	Answer Key
Determine the value			Answers
1) $M + 43 = 38 + 100$		2) 58 - M = 3×9	1. <u>41</u>
			2. 31
			3
3) $16 + 30 = W +$	- 12	4) Y - 26 = 5 \times 3	4
			5
			6. <u>55</u> 7 14
			7. <u>14</u> 8. <u>4</u>
$5) \mathbf{J} \times 2 = 10 \times 3$		6) $K + 4 = 17 + 42$	9. 32
			10. 31
7) $4 \times 7 = Y \times 2$		8) 76 - P = 9 × 8	
9) 48 + 11 = 91 -	Ν	10) $9 \times 6 = 23 + M$	
Math	www.CommonCoreSheets.com 1	1-10 90	80 70 60 50 40 30 20 10 0

Saskatchewan Common Mathematics Assessments Pre Assessment

Outcome: P6.2 I can show, draw, or explain the preservation of equality and check my answers.

1. Explain why this teeter-totter is balanced.

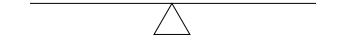


Level	
1	

2. Given the equation, 3+7=10, use (draw) counters on each side of the balance scale to show the preservation of equality for addition by adding 2 counters to each side.

Level





- 3. For each equation below,
 Step 1: Apply the preservation of equality by using a different operation for each question. (+, -, ×, ÷)
 Step 2: Verify each of your answers to show whether or not equality was preserved.
 - a. 5b=15 (use addition +)

- b. t=8 (use division \div)
- c. 14=7z (use multiplication \times)

d. 6=2r (use subtraction -)

4.	Are these equations equal? Verify each equation and explain your reasoning.	
	a. 8=4t	

Level

3

b. 8+1=4t+1

c. 4(2)+1=2(2t)+1

Teacher Section

Teacher Notes:

Student answers may vary considerably.

Answer Key:

Question	Indicator	Level	Answer
1		1	It is balanced because the number on each side is the same even though some are circles and some are squares.
2	P6.2 a	2	Student representations may vary
3 a	P6.2 a, b	3 – step 1 4 step 2	Student answers will vary considerably. Step 1 is to apply preservation of equality, Step 2 is to check the answer. 5b=15 b=15/5 b=3 (addition) so, 5b+3 = 15 + 3 5(3) + 3 = 15 + 3 15+3=18 18=18
3 b	P6.2 a, b	3 Step 1 4 step 2	Student answers will vary considerably. Step 1 is to apply preservation of equality, Step 2 is to check the answer. t=8 (division) So, $t\div 2 = 8 \div 2$ $8\div 2=8\div 2$ 4=4
3 c	P6.2 a, b	3 step 1 4 step 2	Student answers will vary considerably. Step 1 is to apply preservation of equality,Step 2 is to check the answer. $14=7z$ $2=z$ (multiplication) $14 \times 2 = 7z \times 2$ $28=7(2) \times 2$ $28=28$

3 d	P6.2	3	Student answers will vary considerably. Step 1 is to apply preservation of equality,
54	A, b	step	Step 2 is to check the answer.
	11,10	1	6=2r
		1	3=r
		4	(subtraction)
		step	6-1=2r-1
		2	5=2(3)-1
		2	5=5
4	P6.2	3	8=4t
•	b	5	2=t
	~		So
			8=4(2)
			8=8
			8+1=4t+1
			9=4t+1
			8=4t
			2=t
			So
			9=4(2)+1
			9=9
			4(2)+1=2(2t)+1
			8+1=4t+1
			9=4t+1
			8=4t
			2=t
			So
			4(2)+1=2(2)(2)+1
			8+1=8+1
			9=9
			No the 2 emotions are not equal. D and C are equal to 0, but a is small to 9. As a
			No, the 3 equations are not equal. B and C are equal to 9, but a is equal to 8. As a
			result, not all are equal equations.