

WORKSHEET 1.1: USING THE ORDER OF OPERATIONS

Mathematicians have agreed to simplify expressions that have no exponents or grouping symbols according to the following rules:

1. Multiply and divide in order from left to right.
2. Start at the left again and add and subtract from left to right.

EXAMPLES

$50 - 3 \times 2 \times 5 =$	$10 + 2 - 3 \times 4 =$	$32 \div 2 - 2 \times 3 =$
$50 - 6 \times 5 =$	$10 + 2 - 12 =$	$16 - 2 \times 3 =$
$50 - 30 =$	$12 - 12 =$	$16 - 6 =$
20	0	10

DIRECTIONS: Simplify each expression.

1. $12 - 2 \times 4 + 1$

2. $12 \times 4 \div 2 - 3$

3. $10 \times 2 - 2 \times 8$

4. $10 \times 2 - 6 \div 3$

5. $8 + 1 + 6 \times 5 \div 2$

6. $48 \div 2 \times 8 - 4$

7. $15 - 2 - 2 \times 6$

8. $35 + 8 - 12 \div 3$

9. $3 \times 7 - 8 - 5$

10. $20 \times 2 + 10 - 4 \div 2$

11. $8 - 4 + 2 \times 3$

12. $40 \div 8 - 5 + 3 \times 2 + 10$



CHALLENGE: Place the correct operation symbol in the blank so that $12 \underline{\hspace{1cm}} 3 \times 2 + 2 = 8$.

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DIRECTIONS: Simplify each expression.

1. $12 - 2 \times 4 + 1$

5

2. $12 \times 4 \div 2 - 3$

21

3. $10 \times 2 - 2 \times 8$

4

4. $10 \times 2 - 6 \div 3$

18

5. $8 + 1 + 6 \times 5 \div 2$

24

6. $48 \div 2 \times 8 - 4$

188

7. $15 - 2 - 2 \times 6$

1

8. $35 + 8 - 12 \div 3$

39

9. $3 \times 7 - 8 - 5$

8

10. $20 \times 2 + 10 - 4 \div 2$

48

11. $8 - 4 + 2 \times 3$

10

12. $40 \div 8 - 5 + 3 \times 2 + 10$

16



CHALLENGE: Place the correct operation symbol in the blank so that $12 \underline{\quad} 3 \times 2 + 2 = 8$.

Subtraction symbol (-)
 $12 - 3 \cdot 2 + 2 = 8$