



Order of Operations (involving addition, subtraction, multiplication & division)

Grade 6 Expressions & Equations Worksheet

Date:______ Name:_____

Evaluate each expression using the order of operations (**PEMDAS**).

Note: MD (Multiplication and Division is from Left to Right); AS (Addition and Subtraction is from Left to Right)

1.
$$7 - 24 \div 8 \times 4 + 3 =$$

2.
$$15 \div 3 - 7 + 7 \times 5 =$$

3.
$$6 \times 5 \div 15 + 72 \div 8 - 7 = \boxed{}$$

4.
$$7 \times 4 + 9 - 9 + 17 =$$

5.
$$16 \times 15 \div 10 + 12 = \boxed{}$$





Order of Operations (involving addition, subtraction, multiplication & division)

Grade 6 Expressions & Equations Answer Sheet

1.
$$7-24 \div 8 \times 4 + 3 = \boxed{-2}$$

2.
$$15 \div 3 - 7 + 7 \times 5 = \boxed{33}$$

3.
$$6 \times 5 \div 15 + 72 \div 8 - 7 = \boxed{4}$$

4.
$$7 \times 4 + 9 - 9 + 17 = \boxed{45}$$

5.
$$16 \times 15 \div 10 + 12 = \boxed{36}$$

Workings:	
$7-24 \div 8 \times 4 + 3$	First, divide $24 \div 8 = 3$
$=7-3\times4+3$	Next, multiply $3 \times 4 = 12$
=7-12+3	Then, subtract $7-12=-5$
= -5 + 3	Finally, add $-5 + 3 = -2$
=-2	

Workings:	
$15 \div 3 - 7 + 7 \times 5$	First, divide $15 \div 3 = 5$
$=5-7+7\times 5$	Next, multiply $7 \times 5 = 35$
=5-7+35	Then, subtract $5-7=-2$
= -2 + 35	Finally, add $-2 + 35 = 33$
= 33	

Workings:	
$6 \times 5 \div 15 + 72 \div 8 - 7$	First, multiply $6 \times 5 = 30$
$=30 \div 15 + 72 \div 8 - 7$	Next, divide $30 \div 15 = 2$
$=2+72 \div 8-7$	Then, divide $72 \div 8 = 9$
=2+9-7	Next, add $2+9=11$
= 11 - 7	Finally, subtract $11-7=4$
= 4	

Workings:	
$7 \times 4 + 9 - 9 + 17$	First, multiply $7 \times 4 = 28$
= 28 + 9 - 9 + 17	Then, add $28 + 9 = 37$
=37-9+17	Then, subtract $37-9=28$
=28+17	Finally, add $28+17 = 45$
= 45	

Workings:
$$16 \times 15 \div 10 + 12$$
 First, multiply $16 \times 15 = 240$
$$= 240 \div 10 + 12$$
 Then, divide $240 \div 10$
$$= 24 + 12$$
 Finally, add $24 + 12 = 36$
$$= 36$$