

ORDER OF OPERATIONS - A

ANSWERS - PAGE 1

ORDER OF OPERATIONS	
1. PARENTHESES ()	↓
2. EXPONENTS $3^2 = 3 \times 3$	
3. MULTIPLICATION AND DIVISION \times \div	
4. ADDITION AND SUBTRACTION $+$ $-$	

HELPFUL EXAMPLE

$$5 + 3 \times 2$$

\swarrow \searrow
 5 + 6
 \swarrow \searrow
 11

LOOK AT THE LIST ON THE LEFT. WE HAVE TO MULTIPLY BEFORE WE ADD.

ANSWER: 11

USE THE ORDER OF OPERATIONS TO SOLVE EACH PROBLEM.

- | | | |
|----------------------------------|------------------------------------|------------------------------------|
| 1. $6 - 8 \div 2$
6 - 4 = 2 | 2. $1 \times 2 + 4$
2 + 4 = 6 | 3. $9 \div 3 + 5$
3 + 5 = 8 |
| 4. $3 + 0 \times 6$
3 + 0 = 3 | 5. $10 \div 2 - 4$
5 - 4 = 1 | 6. $2 \times 8 - 6$
16 - 6 = 10 |
| 7. $8 - 4 \div 2$
8 - 2 = 6 | 8. $3 \times 4 - 2$
12 - 2 = 10 | 9. $5 + 3 \times 7$
5 + 21 = 26 |

LOOK AT THE LIST. DO PARENTHESES FIRST.

- | | | |
|---|---|---|
| 10. $(7 - 4) \times 5$
3 \times 5 = 15 | 11. $3 \times (2 + 6)$
3 \times 8 = 24 | 12. $(5 + 5) \div 5$
10 \div 5 = 2 |
| 13. $14 - 10 \div 2$
14 - 5 = 9 | 14. $(9 - 3) \div 3$
6 \div 3 = 2 | 15. $24 \div 6 - 2$
4 - 2 = 2 |
| 16. $(7 + 2) \times 4$
9 \times 4 = 36 | 17. $24 \div (6 - 2)$
24 \div 4 = 6 | 18. $7 + 2 \times 4$
7 + 8 = 15 |

ORDER OF OPERATIONS - B

ANSWERS - PAGE 2

ORDER OF OPERATIONS	
1. PARENTHESES ()	
2. EXPONENTS $3^2 = 3 \times 3$	
3. MULTIPLICATION AND DIVISION \times \div	→
4. ADDITION AND SUBTRACTION $+$ $-$	→

HELPFUL EXAMPLE

$$8 \div 4 \times 2$$

\swarrow \searrow
 2 4
 \swarrow \searrow
 8

WHEN YOU HAVE MULTIPLICATION AND DIVISION WITH NO PARENTHESES YOU SOLVE FROM LEFT TO RIGHT. IT'S LIKE READING A BOOK.

ANSWER: 4

USE THE ORDER OF OPERATIONS TO SOLVE EACH PROBLEM.

- | | | |
|---|--|---|
| 1. $24 \div 6 \times 2$
→ 4 \times 2 = 8 | 2. $9 \times 6 \div 3$
54 \div 3 = 18 | 3. $6 \div 3 \times 9$
2 \times 9 = 18 |
|---|--|---|

PARENTHESES!

- | | | |
|---|---|--|
| 4. $6 \times (8 \div 2)$
6 \times 4 = 24 | 5. $14 \div (2 \times 7)$
14 \div 14 = 1 | 6. $14 \div 2 \times 7$
7 \times 7 = 49 |
|---|---|--|

DO THE SAME FOR ADDITION AND SUBTRACTION.

- | | | |
|----------------------------------|----------------------------------|---------------------------------|
| 7. $20 - 8 + 5$
→ 12 + 5 = 17 | 8. $18 + 5 - 12$
23 - 12 = 11 | 9. $31 - 13 + 6$
18 + 6 = 24 |
|----------------------------------|----------------------------------|---------------------------------|

- | | | |
|-----------------------------------|------------------------------------|---------------------------------|
| 10. $17 + (9 - 4)$
17 + 5 = 22 | 11. $25 - (8 + 7)$
25 - 15 = 10 | 12. $25 - 8 + 7$
17 + 7 = 24 |
|-----------------------------------|------------------------------------|---------------------------------|

REVIEW.

- | | | |
|--|--|---|
| 13. $5 \times (4 + 7)$
5 \times 11 = 55 | 14. $29 - 9 + 3$
20 + 3 = 23 | 15. $40 \div (4 \times 2)$
40 \div 8 = 5 |
| 16. $32 - 8 \div 4$
32 - 2 = 30 | 17. $12 \div 6 \times 2$
2 \times 2 = 4 | 18. $18 + (5 - 3)$
18 + 2 = 20 |