

ORDER OF OPERATIONS PRACTICE - 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

$$5 + 3 \times 2$$

$$5 + 6$$

$$11$$

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. $8 - 6 \div 3$
8 - 6 = 2
2 ÷ 3 = 2/3 | 2. $3 \times 2 + 4$
3 × 2 = 6
6 + 4 = 10 | 3. $5 \times 3 - 3$
5 × 3 = 15
15 - 3 = 12 |
| 4. $4 + 4 \times 2$
4 × 2 = 8
4 + 8 = 12 | 5. $10 \div 2 + 8$
10 ÷ 2 = 5
5 + 8 = 13 | 6. $16 - 8 \div 4$
8 ÷ 4 = 2
16 - 2 = 14 |
| 7. $14 - 4 \times 3$
4 × 3 = 12
14 - 12 = 2 | 8. $15 + 10 \div 5$
10 ÷ 5 = 2
15 + 2 = 17 | 9. $7 + 1 \times 5$
1 × 5 = 5
7 + 5 = 12 |

LOOK AT THE LIST. PARENTHESES ARE FIRST.

- | | | |
|---|---|--|
| 10. $(6 - 3) \times 4$
6 - 3 = 3
3 × 4 = 12 | 11. $6 \times (4 + 2)$
4 + 2 = 6
6 × 6 = 36 | 12. $6 \div (3 + 3)$
3 + 3 = 6
6 ÷ 6 = 1 |
| 13. $(7 + 8) \times 2$
7 + 8 = 15
15 × 2 = 30 | 14. $3 \times (3 - 3)$
3 - 3 = 0
3 × 0 = 0 | 15. $(4 + 6) \div 2$
4 + 6 = 10
10 ÷ 2 = 5 |
| 16. $14 \div (7 - 5)$
7 - 5 = 2
14 ÷ 2 = 7 | 17. $(6 - 4) \times 2$
6 - 4 = 2
2 × 2 = 4 | 18. $(8 - 4) \div 2$
8 - 4 = 4
4 ÷ 2 = 2 |

ORDER OF OPERATIONS PRACTICE - C

ANSWERS - PAGE 3

IF YOU ARE CONFUSED ON WHAT TO DO FIRST, JUST LOOK AT THE LIST.

USE THE ORDER OF OPERATIONS TO SOLVE EACH PROBLEM.

- | | |
|--|--|
| 1. $12 + (6 - 4) \times 2$
6 - 4 = 2
2 × 2 = 4
12 + 4 = 16 | 2. $(5 + 5) \times 2 + 10$
5 + 5 = 10
10 × 2 = 20
20 + 10 = 30 |
| 3. $3 \times 6 - (4 + 2)$
3 × 6 = 18
4 + 2 = 6
18 - 6 = 12 | 4. $16 + (8 - 6) \div 2$
8 - 6 = 2
2 ÷ 2 = 1
16 + 1 = 17 |
| 5. $4 + (2 \times 3) \times 5$
2 × 3 = 6
6 × 5 = 30
4 + 30 = 34 | 6. $(4 \times 2) + 6 \times 2$
4 × 2 = 8
6 × 2 = 12
8 + 12 = 20 |
| 7. $20 - 10 \div (6 \div 3)$
6 ÷ 3 = 2
10 ÷ 2 = 5
20 - 5 = 15 | 8. $(8 \div 4) + 16 \div 2$
8 ÷ 4 = 2
16 ÷ 2 = 8
2 + 8 = 10 |
| 9. $14 - (9 - 6) \times 3$
9 - 6 = 3
3 × 3 = 9
14 - 9 = 5 | 10. $6 \times 2 + (8 \div 4)$
8 ÷ 4 = 2
6 × 2 = 12
12 + 2 = 14 |
| 11. $(7 - 5) + 3 \times 4$
7 - 5 = 2
3 × 4 = 12
2 + 12 = 14 | 12. $12 - (4 - 1) + 9$
4 - 1 = 3
12 - 3 = 9
9 + 9 = 18 |

ORDER OF OPERATIONS PRACTICE - 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

$$8 \div 4 \times 2$$

$$2 \times 2$$

$$4$$

WHEN YOU HAVE MULTIPLICATION AND DIVISION TOGETHER, YOU SOLVE FROM LEFT TO RIGHT. IT'S LIKE READING A BOOK.

ANSWER: 4

USE THE ORDER OF OPERATIONS TO SOLVE EACH PROBLEM.

- | | | |
|--|---|---|
| 1. $12 \div 2 \times 3$
12 ÷ 2 = 6
6 × 3 = 18 | 2. $8 \times 4 \div 2$
8 × 4 = 32
32 ÷ 2 = 16 | 3. $16 \div 8 \times 2$
16 ÷ 8 = 2
2 × 2 = 4 |
| 4. $5 \times 6 \div 10$
5 × 6 = 30
30 ÷ 10 = 3 | 5. $20 \div 2 \times 5$
20 ÷ 2 = 10
10 × 5 = 50 | 6. $3 \times 10 \div 2$
3 × 10 = 30
30 ÷ 2 = 15 |

DO THE SAME FOR ADDITION AND SUBTRACTION.

- | | | |
|--|---|--|
| 7. $14 - 4 + 3$
14 - 4 = 10
10 + 3 = 13 | 8. $16 + 6 - 10$
16 + 6 = 22
22 - 10 = 12 | 9. $25 - 5 + 5$
25 - 5 = 20
20 + 5 = 25 |
| 10. $20 + 4 - 7$
20 + 4 = 24
24 - 7 = 17 | 11. $22 - 8 + 2$
22 - 8 = 14
14 + 2 = 16 | 12. $13 + 5 - 8$
13 + 5 = 18
18 - 8 = 10 |

WHY ARE THESE PROBLEMS DIFFERENT FROM THE ONES ABOVE?

- | | | |
|---|---|---|
| 13. $14 - (4 + 3)$
4 + 3 = 7
14 - 7 = 7 | 14. $25 - (5 + 5)$
5 + 5 = 10
25 - 10 = 15 | 15. $22 - (8 + 2)$
8 + 2 = 10
22 - 10 = 12 |
| 16. $12 \div (2 \times 3)$
2 × 3 = 6
12 ÷ 6 = 2 | 17. $16 \div (8 \times 2)$
8 × 2 = 16
16 ÷ 16 = 1 | 18. $20 \div (2 \times 5)$
2 × 5 = 10
20 ÷ 10 = 2 |

ANSWERS FOR ALL 3 PAGES