

Boost Free Lessons - Year 6 Maths

Lesson 4: Order of Operations

Name: _____ Grade: _____ Date: _____

Worked Example 1

Work out $5 + 3 \times 4$.

1. Operations are not done left to right. There is an order to follow.
2. **B**rackets first, then **D**ivision and **M**ultiplication, then **A**ddition and **S**ubtraction.
3. There are no brackets here, so do the multiplication first: $3 \times 4 = 12$.
4. Then the addition: $5 + 12 = 17$. Working left to right would give 32, which is wrong.

$5 + 3 \times 4 = 17$

Worked Example 2

Work out $(8 + 4) \div 3 \times 2$.

1. Brackets always come first: $8 + 4 = 12$.
2. Now the expression is $12 \div 3 \times 2$.
3. Division and multiplication have **equal** rank, so work left to right: $12 \div 3 = 4$.
4. Then $4 \times 2 = 8$.

$(8 + 4) \div 3 \times 2 = 8$

Remember: Work in this order: **B**rackets, then **D**ivision and **M**ultiplication left to right, then **A**ddition and **S**ubtraction left to right.



Question 1: Work out the following.

1. $6 + 2 \times 5$

2. $20 - 12 \div 4$

3. $3 \times 4 + 8$

4. $18 \div 6 - 1$

5. $10 + 15 \div 5$

6. $7 \times 2 - 3 \times 4$

7. $24 \div 8 \times 3$

8. $40 - 6 \times 5$



Question 2: Work out the following.

1. $(9 + 3) \times 2$

2. $5 \times (11 - 4)$

3. $(20 - 8) \div 4$

4. $2 \times (6 + 3) - 5$

5. $36 \div (2 + 4) + 7$

6. $(15 - 3) \div (2 + 2)$



Question 3: Answer the following questions.

1. Mia buys 4 books at \$9 each and one pen for \$3. Write a number sentence and find the total.
2. A tray holds 24 muffins. 3 trays are made and 8 muffins are eaten. Write a number sentence and find how many are left.
3. Jack says $8 + 2 \times 5 = 50$. Explain his mistake and give the correct answer.
4. Put brackets into $6 + 4 \times 2$ so the answer becomes 20.
5. A garden is 9 m by 5 m. A path 3 m by 2 m is removed. Write a number sentence for the area left.





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Answers: Order of Operations**Question 1**

1. 16
2. 17
3. 20
4. 2
5. 13
6. 2
7. 9
8. 10

Question 2

1. 24
2. 35
3. 3
4. 13
5. 13
6. 3

Question 3

1. $4 \times 9 + 3 = \$39$
2. $3 \times 24 - 8 = 64$ muffins
3. He added before multiplying. Multiplication comes first: $8 + 10 = 18$.
4. $(6 + 4) \times 2$
5. $9 \times 5 - 3 \times 2 = 39 \text{ m}^2$

