

Name: _____

Year: _____

Date: _____

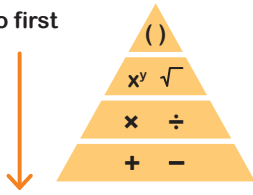


Order of Operations - Multiplication, Division, Addition and Subtraction



ANSWERS

Do first



Calculations are not always completed from left to right. Instead there are rules about which calculations are completed first. Use this triangle to help you calculate all the questions on this worksheet.

Section A Underline which bit of the calculation you are going to do first before working out your answer.

Example

$$7 + \underline{3 \times 5}$$

$$7 + 15 = 22$$

1) $9 + \underline{4 \times 6}$

$$9 + 24 = 33$$

2) $6 - \underline{10 \div 5}$

$$6 - 2 = 4$$

3) $\underline{4 \times 21} \div 3$

$$4 \times 7 = 28$$

Section B Underline which bit of the calculation you are going to do first and then which calculation you will do second before working out your answer.

Example

$$\underline{5 \times 4} + \underline{2 \times 3}$$

$$20 + 6 = 26$$

1) $\underline{30 \div 6} - \underline{15 \div 5}$

$$5 - 3$$

$$= 2$$

2) $\underline{2 \times 8} - \underline{18 \div 3}$

$$16 - 6$$

$$= 10$$

3) $13 + \underline{11 - 4} \times 2$

$$13 + 11 - 8$$

$$24 - 8$$

$$= 16$$

Section C Choose the correct answer for the following calculations.

- $12 - 2 \times 4 =$
- $16 + 32 \div 8 =$
- $5 \times 9 - 11 \times 2 =$
- $4 + 3 \times 10 \div 5 =$
- $72 + 30 - 25 \times 4 =$

- | | | |
|-----|----|-----|
| 40 | 4 | 24 |
| 34 | 4 | 20 |
| 58 | 68 | 23 |
| 10 | 14 | 7 |
| 308 | 2 | 172 |

Section D Without using a calculator, calculate the following.

1) $8 - 3 \times 2 = 2$	6) $7 - 1 \times 6 = 1$	11) $5 \times 5 + 20 \div 10 = 27$
2) $4 + 6 \div 2 = 7$	7) $31 - 3 \times 8 = 7$	12) $49 \div 7 + 18 \div 3 = 13$
3) $5 + 4 \times 4 = 21$	8) $6 - 10 \div 5 = 4$	13) $8 \times 6 + 77 \div 7 = 59$
4) $5 - 12 \div 3 = 1$	9) $8 \div 4 + 14 = 16$	14) $10 + 7 - 2 \times 6 = 5$
5) $2 + 7 \times 3 = 23$	10) $8 + 7 + 2 \times 6 = 27$	15) $18 - 6 \times 15 \div 5 = 0$

Section E Spot and correct the mistakes.

1) $3 + 5 \times 7 = 56$

This has been calculated from left to right and the multiplication should be done first.
 $3 + 35 = 38$

2) $11 + 3 \times 9 - 8 = 14$

The subtraction has been completed first but it should be the multiplication.
 $11 + 27 - 8 = 30$