Name: _____ prtutorial.in Date: _____

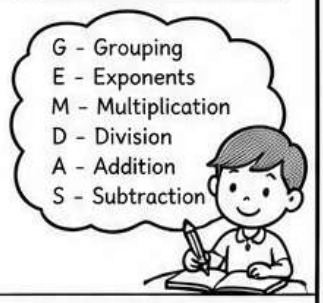


GEMDAS Worksheet for Grade 6

Follow the order of operations:

G – Grouping (brackets) E – Exponents M – Multiplication
D – Division A – Addition S – Subtraction

Do the operations in the correct order and write the answer.



1. Use GEMDAS to solve the following.

a) $3 + 5 \times 4$ = _____
b) $20 \div 4 + 6$ = _____
c) $8 - 2 \times 3$ = _____
d) $15 \div 3 + 7 \times 2$ = _____
e) $12 - 4 \times 3 + 6$ = _____
f) $18 \div 3 \times 2 + 5$ = _____
g) $9 + 6 \div 2 - 4$ = _____
h) $25 - 5 \times 4 + 3$ = _____
i) $16 \div 4 + 8 \times 2$ = _____
j) $7 + 3 \times 5 - 4$ = _____

2. Evaluate the expressions with brackets.

a) $(7 + 3) \times 4$ = _____
b) $(18 - 6) \div 3$ = _____
c) $(9 + 5) \times (6 - 2)$ = _____
d) $(20 \div 4) + (3 \times 5)$ = _____
e) $(15 - 7) \times (9 - 4)$ = _____
f) $(12 + 8) \div (5 - 2)$ = _____
g) $(6 \times 3) + (14 \div 2)$ = _____
h) $(30 - 12) \div (3 \times 2)$ = _____
i) $(5 + 7) \times (9 - 5)$ = _____
j) $(18 \div 3) + (7 \times 2)$ = _____

3. Solve the following (no brackets).

a) $4 + 6 \times 5 - 3$ = _____
b) $50 \div 5 + 7 \times 2$ = _____
c) $8 \times 3 + 14 - 6$ = _____
d) $72 \div 8 - 5 \times 2$ = _____
e) $9 + 4 \times 6 \div 3$ = _____
f) $45 - 9 \div 3 \times 4$ = _____
g) $6 \times 7 - 20 \div 4$ = _____
h) $36 \div 6 + 8 \times 3 - 5$ = _____
i) $21 - 3 \times 5 + 10$ = _____
j) $16 \div 4 \times 7 - 3$ = _____

4. Find the value of the given expressions.

a) $3^2 + 4 \times 2$ = _____
b) $5^2 - 3 \times 4$ = _____
c) $(6 + 2)^2 \div 4$ = _____
d) $7^2 - 5 \times 6$ = _____
e) $(10 - 3)^2 + 5$ = _____
f) $8 \times 3^2 - 12$ = _____
g) $(4 + 5) \times 2^2$ = _____
h) $15 \div 3^2 + 6$ = _____
i) $(9 - 4)^2 - 7$ = _____
j) $6^2 \div 3 + 5 \times 2$ = _____

5. Solve the word problems.

a) A bag has 8 apples. Each apple is divided into 4 pieces. How many pieces are there in total?

_____

b) A shopkeeper has 72 books. He packs 6 books in each box. How many boxes will he need?

_____

c) A train travels 3 times a day. Each day it covers 48 km. How many kilometres does it travel in 5 days?

_____

d) A pencil costs ₹12. A notebook costs ₹8. You buy 5 pencils and 3 notebooks. What is the total cost?

_____

e) A box has 6 compartments. Each compartment has 9 marbles. How many marbles are there in 4 boxes?

_____

6. Find the missing number.

a) $\square + 7 \times 5 = 42$
b) $18 \div \square + 6 = 12$
c) $(\square + 4) \times 3 = 27$
d) $45 - \square \times 5 = 20$
e) $\square \div 6 + 8 = 11$
f) $7 \times \square - 9 = 26$
g) $(12 + \square) \div 4 = 5$
h) $8 + 3 \times \square = 20$
i) $(15 - \square) \times 2 = 18$
j) $9^2 - \square = 53$

Remember:
Brackets first,
then exponents,
then multiply/divide
(from left to right),
then add/subtract
(from left to right). ☺

☆ Challenge

a) Find the value of $(6 + 2) \times 3^2 - 5$ _____

b) What number should be added to 7 to make $5 \times (7 + \square) = 50$?

_____

c) If you multiply 8 by 6 and then add 12, what will be the result?

_____