

Name: _____

USING BRACKETS IN CALCULATIONS



Brackets are used in calculations to group numbers and operations.

They tell us which part of the calculation to solve first. Look at the 2 examples below to see the effect of brackets.

$$(5 + 3) \times 2$$

1. Solve the bracket first: $5 + 3 = 8$

2. Multiply: $8 \times 2 = 16$

$$5 + (3 \times 2)$$

1. Solve the bracket first: $3 \times 2 = 6$

2. Add: $5 + 6 = 11$

Solve the following questions:

1. $(3 + 4) \times 2 = \underline{\quad}$
2. $10 \div (2 + 3) = \underline{\quad}$
3. $(6 - 1) \times 4 = \underline{\quad}$
4. $8 \times (5 - 2) = \underline{\quad}$
5. $(12 \div 3) + 4 = \underline{\quad}$
6. $(7 + 5) \times 3 = \underline{\quad}$
7. $(10 - 6) \div 2 = \underline{\quad}$
8. $(4 + 2) \times 3 = \underline{\quad}$
9. $15 \div (8 - 3) = \underline{\quad}$
10. $(9 - 4) \times 5 = \underline{\quad}$

11. $(2 + 8) \div 2 = \underline{\quad}$
12. $5 \times (3 + 4) = \underline{\quad}$
13. $(8 - 3) \times 4 = \underline{\quad}$
14. $(16 \div 4) + 6 = \underline{\quad}$
15. $(9 + 7) \div 4 = \underline{\quad}$
16. $3 \times (6 - 2) = \underline{\quad}$
17. $(18 \div 6) + 5 = \underline{\quad}$
18. $(11 - 9) \times 8 = \underline{\quad}$
19. $(20 \div 5) \times 3 = \underline{\quad}$
20. $(6 + 3) \times 2 = \underline{\quad}$

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Sometimes, a calculation will have two sets of brackets. In this case, we solve both brackets first, at the same time, and then complete the rest of the calculation. Try solving these questions:

1. $(3 + 5) \times (2 + 4) = \underline{\hspace{2cm}}$

2. $(6 - 3) \times (5 + 2) = \underline{\hspace{2cm}}$

3. $(8 \div 2) \times (4 - 1) = \underline{\hspace{2cm}}$

4. $(10 + 5) \div (6 - 3) = \underline{\hspace{2cm}}$

5. $(9 + 6) \times (4 \div 2) = \underline{\hspace{2cm}}$

6. $(12 \div 3) \times (7 - 5) = \underline{\hspace{2cm}}$

7. $(5 \times 2) + (3 + 7) = \underline{\hspace{2cm}}$

8. $(15 - 5) \div (8 - 6) = \underline{\hspace{2cm}}$

9. $(10 + 5) \times (8 \div 4) = \underline{\hspace{2cm}}$

10. $(20 \div (4 + 6)) \times 3 = \underline{\hspace{2cm}}$

Challenge Questions (Add brackets to make the equation correct)

The first one has been done for you:

1. $(3 + 4) \times 2 = 14$

2. $10 \div 2 + 3 = 8$

3. $6 - 1 \times 4 = 20$

4. $8 \times 5 - 2 = 24$

5. $35 \div 3 + 4 = 5$

6. $7 + 5 \times 3 = 36$

7. $10 - 6 \div 2 = 2$

8. $4 + 2 \times 3 = 18$

9. $15 \div 5 - 2 = 1$

10. $9 - 4 \times 5 = 25$