



Order of operations and grouping symbols

GRADE 5 MATH

Name _____

Date _____

Write the value of each part before combining. If an expression has brackets, say what one number they make.

WORKED EXAMPLE

$\times$ and $\div$ are one rank, left to right. $+$ and $-$ are one rank, left to right. Brackets mean “this is one number”, innermost first.

1. Evaluate $5 + 2 \times 8$.

FLUENCY

Show your thinking

Answer

2. Evaluate $(5 + 2) \times 8$.

FLUENCY

Show your thinking

Answer

3. Evaluate $30 - 12 \div 4$.

FLUENCY

Show your thinking

Answer

4. Evaluate $40 \div (2 + 3)$.

FLUENCY

Show your thinking

Answer

5. Evaluate $100 - 15 + 5$. Then evaluate $100 - (15 + 5)$. Why are they different?

APPLICATION

Show your thinking

Answer

6. Evaluate $[(6 + 4) \times 3] - 5$.

APPLICATION

Show your thinking

Answer

7. For $36 \div 9 \times 2$, one child gets 8 and another gets 2. Who is right, and which rule settles it?

REASONING

Show your thinking

Answer

8. Put brackets into $2 + 3 \times 4$ so that it equals 20. What does it equal without them?

APPLICATION

Show your thinking

Answer

9. Why does everyone have to agree an order at all? What would go wrong without one?

REASONING

Show your thinking

Answer