

Math Task 1: Number Tricks

Alice (for 1): I started with 10. My expression is $10 \times 21 + 12 \div 3 - 4 \div 7$

Bob (for 1): I started with 30. My expression is $(30 \times 21) + (12 \div 3) - (4 \div 7)$, because multiplication comes before division and that comes before addition and then subtraction.

Math Task 2: Identity Elements models/problems

Candice (for 5): This is zero, because you can't make sets of zero.

Daniel (for 7): You can't do this problem, because you can never divide with zero.

Math Task 3: Scientific Notation

Eleanor (for 1): The exponent on the 10 is 14, so there is 14 zeros. My answer is: 3600000000000000

Frank (for 2): I have to distribute the (4×10^7) , so I get $8 \times (4 \times 10^7) \times 10^6 \times (4 \times 10^7) = 128 \times 10^{20}$. Now I need to move the decimal place so that I get 1.28×10^{22}