

Integer Properties

- Which of these statements are true?
 - $4 + 5 = 5 + 4$
 - $4 - 5 = 5 - 4$
 - $4 \times 5 = 5 \times 4$
 - $4 \div 5 = 5 \div 4$
 - $(4 + 5) + 6 = 4 + (5 + 6)$
 - $(4 - 5) - 6 = 4 - (5 - 6)$
 - $(4 \times 5) \times 6 = 4 \times (5 \times 6)$
 - $(4 \div 5) \div 6 = 4 \div (5 \div 6)$
 - $3 + 0 = 3$ (if false, what is the correct answer)
 - $3 - 0 = 3$ (if false, what is the correct answer)
 - $3 \times 0 = 3$ (if false, what is the correct answer)
 - $3 \div 0 = 3$ (if false, what is the correct answer)
- List the factors of:
 - 12
 - 63
 - 64
- Break down into prime factors:
 - 12
 - 63
 - 64
- Use your knowledge of odd and even numbers to spot, without any calculations, which of the following **must** be wrong?
 - $359 + 285 = 643$
 - $505 \times 36 = 18\,175$
 - $442 + 18 - 377 = 84$
 - $43680 \div 1560 = 27$
 - If they aren't obviously wrong, does that mean that they must be right?