

Spot the Mistake

Arithmetic Examples

	Spot the mistake	Corrected statement	Explanation
1.	$2 \times 3^2 = 6^2 = 36$		
2.	$12 - 2 \times 4 = 40$		
3.	$4 \times 3 + 2 \times 5 = 100$		

Algebraic Equation Examples

Only one of the solutions below is correct. Identify the correct solution and spot the error(s) in each of the other solutions.			
A	$\frac{2x-1}{3} - \frac{x-1}{2} = 1$ $\therefore \frac{2(2x-1)}{6} - \frac{3(x-1)}{6} = 1$ $\therefore 4x - 2 - 3x + 3 = 1$ $\therefore x + 1 = 1$ $\therefore x = 0$	B	$\frac{2x-1}{3} - \frac{x-1}{2} = 1$ $\therefore \frac{2(2x-1)}{6} - \frac{3(x-1)}{6} = 1$ $\therefore 4x - 1 - 3x - 1 = 1$ $\therefore x - 2 = 1$ $\therefore x = 3$
C	$\frac{2x-1}{3} - \frac{x-1}{2} = 1$ $\therefore \frac{2(2x-1)}{6} - \frac{3(x-1)}{6} = \frac{6}{6}$ $\therefore 4x - 2 - 3x + 3 = 6$ $\therefore x + 1 = 6$ $\therefore x = 5$	D	$\frac{2x-1}{3} - \frac{x-1}{2} = 1$ $\therefore \frac{2(2x-1)}{6} - \frac{3(x-1)}{6} = 1$ $\therefore 4x - 2 - 3x - 3 = 1$ $\therefore x - 5 = 1$ $\therefore x = 6$
E	$\frac{2x-1}{3} - \frac{x-1}{2} = 1$ $\therefore \frac{2(2x-1) - 3(x-1)}{6} = \frac{6}{6}$ $\therefore 4x - 4 - 3x + 3 = 6$ $\therefore x - 1 = 6$ $\therefore x = 7$	F	$\frac{2x-1}{3} - \frac{x-1}{2} = 1$ $\therefore \frac{2(2x-1)}{6} - \frac{3(x-1)}{6} = \frac{6}{6}$ $\therefore 4x - 2 - 3x - 3 = 6$ $\therefore x - 5 = 6$ $\therefore x = 11$

Geometry Examples

	Spot the mistake	Corrected statement	Explanation
1.	A quadrilateral with four equal sides is a square.		
2.	The angles in a quadrilateral add up to 180° .		
3.	The diagonals of a kite bisect each other at right angles.		
4.	A scalene triangle has two equal sides.		