

A.A.4: Modeling Equations: Translate verbal sentences into mathematical equations or inequalities

- 1 If h represents a number, which equation is a correct translation of "Sixty more than 9 times a number is 375"?
 - 1) $9h = 375$
 - 2) $9h + 60 = 375$
 - 3) $9h - 60 = 375$
 - 4) $60h + 9 = 375$

- 2 The width of a rectangle is 4 less than half the length. If ℓ represents the length, which equation could be used to find the width, w ?
 - 1) $w = \frac{1}{2}(4 - \ell)$
 - 2) $w = \frac{1}{2}(\ell - 4)$
 - 3) $w = \frac{1}{2}\ell - 4$
 - 4) $w = 4 - \frac{1}{2}\ell$

- 3 Three times the sum of a number and four is equal to five times the number, decreased by two. If x represents the number, which equation is a correct translation of the statement?
 - 1) $3(x + 4) = 5x - 2$
 - 2) $3(x + 4) = 5(x - 2)$
 - 3) $3x + 4 = 5x - 2$
 - 4) $3x + 4 = 5(x - 2)$

- 4 The product of a number and 3, increased by 5, is 7 less than twice the number. Which equation can be used to find this number, n ?
 - 1) $3n + 5 = 2n - 7$
 - 2) $3n + 5 = 7 - 2n$
 - 3) $3(n + 5) = 2n - 7$
 - 4) $3(n + 5) = 7 - 2n$

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|---|--------|---------------|
| 1 | ANS: 2 | REF: 080901ia |
| 2 | ANS: 3 | REF: 011413ia |
| 3 | ANS: 1 | REF: 061418ia |
| 4 | ANS: 1 | REF: 061508ia |