Equations, Formulae, Inequalities & Simultaneous Equations

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Leann writes the following statement as an inequality : *The sum of twice x and 4 is less than or equal to the difference between x and 3’.* Which of these is Leann’s inequality ?

<\_block>

[A]

<\_block>

[B]

<\_block>

[C]

<\_block>

[D]

<\_block>

[C]

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The equation y = 3*x* – 5 has been used to complete the table. Which of these is the missing number ?



<\_block>

[A] 3

<\_block>

[B]

<\_block>

[C]

<\_block>

[D]

<\_block>

[B]

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Use the formula *C* and correct to two decimal places when *r = 8* ?

<\_block>

[A]

<\_block>

[B]

<\_block>

[C]

<\_block>

[D]

<\_block>

[B]

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Which of these is the solution of the inequality *2 – 2(x + 1) ˃ -3 + x ?*

<\_block>

1. 

<\_block>

<\_block>

[C] 

<\_block>  
[D] 

<\_block>

[B]

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*If V =h,* which of these is the value of *h* when *V = 54 & r = 6 ?*

<\_block>

[A]

<\_block>

[B]

<\_block>

[C]

<\_block>

[D]

<\_block>

[C]

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Which of the following correctly expresses *y* as the subject of *3xy –* *2y = 7?*

<\_block>

[A]

<\_block>

[B] ]

<\_block>

[C]

<\_block>

[D]

<\_block>

[D]

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*If d =* which of these is a correct formula ?

<\_block>

<\_block>

[B]

<\_block>

[C]

<\_block>

[D]

<\_block>

[A]

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Which of these is the solution of *=* ?

<\_block>

[A]

<\_block>

[B]

<\_block>

[C]

<\_block>

[D]

<\_block>

[B]

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It is known that *x + 2y = k* and *3x – 2y = k + 1.*

Which of these is an expression for *x ?*

<\_block>

[A]

<\_block>

[B]

<\_block>

[C]

<\_block>

[D]

<\_block>

[B]

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Which of these is the graph of the solution of *4 – x = 2* ?

<\_block>

[A] 

<\_block>

[B] 

<\_block>

[C] 

<\_block>

[D] 

<\_block>

[D]