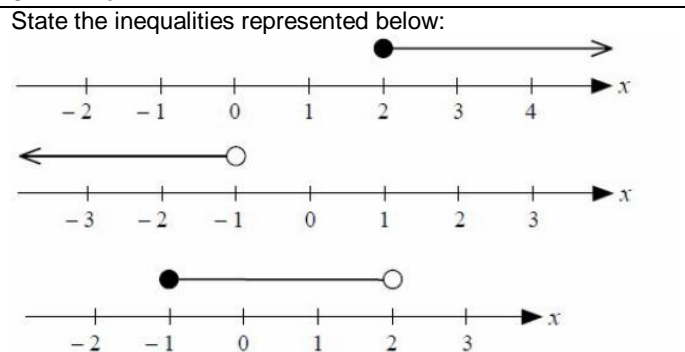


(15a) Inequalities Name \_\_\_\_\_

Fill in the blanks with either a >, < or =  
123 \_\_\_\_\_ 321  
54 \_\_\_\_\_ 65  
0.1 \_\_\_\_\_ 0.1  
34.1 \_\_\_\_\_ 34.01

List 3 integers that satisfy the following inequalities:  
 $x > 5$   
 $3 < x$   
 $-5 \leq x$   
 $5 < x < 10$   
 $-1 \leq x < 5$

List **all** the integers that satisfy the following inequalities:  
 $4 < x < 8$   
 $-2 \leq x < 4$   
 $-5 < x < 1$   
 $8 \leq x \leq 10$



Solve the following inequalities:  
 $3x > 9$   
 $2x + 2 < 8$   
 $5x - 1 > 9$

(15b) Formulae

$a = 2, b = 3$  and  $c = 1$   
Find (1)  $2a$  (2)  $3b - c$  (3)  $b^2 - 2a$

$x = -1, y = 2$  and  $z = 5$   
Find (1)  $3x$  (2)  $z - y$  (3)  $y - x$  (4)  $x^2 + y$

$p = 7, q = -2$  and  $r = 0$   
Find (1)  $2r$  (2)  $p - q$  (3)  $q^2 + 7$  (4)  $pr$

A taxi costs £3 per mile and a £10 fixed charge for each journey.  
The Cost is C and the Number of Miles is M.  
(1) Write a formula to find the cost of a taxi journey. (2) Work out the cost of a 4 mile journey (3) find out how many miles a journey was if the charge was £40

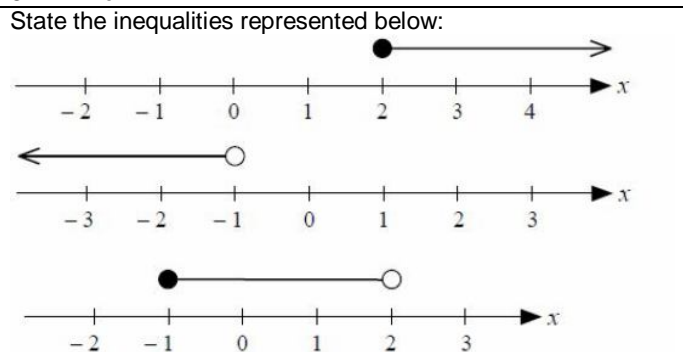
Paul cleans windows. He charges a fixed call out fee of £5 and each window he cleans costs £2. Using 'C' to represent the cost and 'W' for the number of windows (i) Write a formula for the cost of having 'W' windows cleaned (ii) Find the cost of having 5 windows cleaned (iii) Find the number of windows cleaned if the bill was £37

(15a) Inequalities Name \_\_\_\_\_

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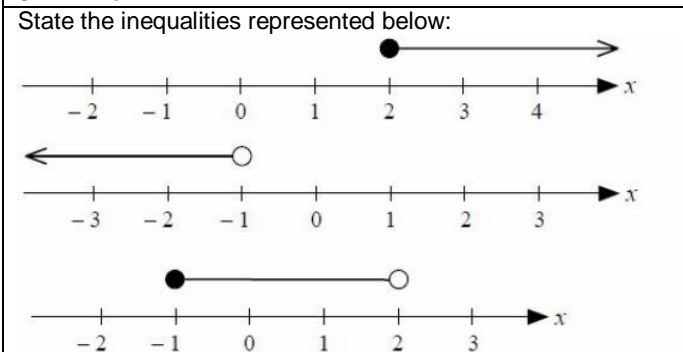
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