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Clip 110: Trial and Improvement - Question 1

Standard Questions 1 2

Question Progress

The equation $x^2 - 3x = 15$ has a solution between 2 and 3. Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.

On the same line as your final answer you must write "to 1 decimal place".

2.9 to 1 decimal place

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- The equation $x^2 - x = 29$ has a solution between 3 and 4. Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.
- The equation $x^2 - 4x = 25$ has a solution between 3 and 4. Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.
- The equation $x^2 - 2x = 68$ has a solution between 4 and 5. Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.
- The equation $x^2 + 4x = 101$ has one solution which is a positive number. Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.

©Mathswatch Clip 108 Inequalities

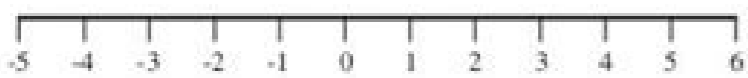
1) Represent this inequality on the number line

$$-3 < x < 2$$

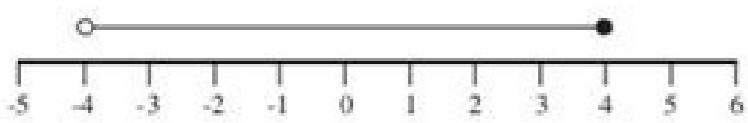


2) Represent this inequality on the number line

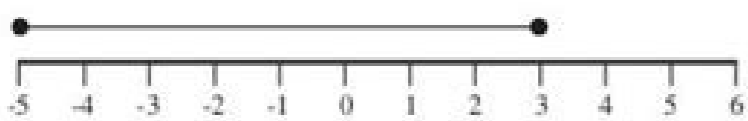
$$-1 < x < 5$$



3) Write down the inequality shown



4) Write down the inequality shown



5) If y is an integer, write down all the possible values of

$$-2 < y < 5$$

6) If x is an integer, write down all the possible values of

$$-9 < x < -5$$

Psychology of Health and Social Care

Unit 1

Psychology of Health and Social Care

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Systems of Equations
Solve by Graphing
Graphically

Name: ANSWER KEY

$y = -\frac{1}{2}x + 2$ $y = -\frac{1}{2}x + 3$ $y = \frac{1}{2}x + 3$ $y = \frac{1}{2}x + 8$
 Solution: $(-2, -1)$ Solution: $(-2, -1)$ Solution: $(-2, -1)$ Solution: $(-2, -1)$

$y = 4x - 1$ $y = 5$ $y = 2x + 4$ $y = -\frac{1}{2}x - 7$
 Solution: $(-1, -1)$ Solution: $(-1, -1)$ Solution: $(-1, -1)$ Solution: $(-1, -1)$

