

### LINEAR EQUATION EXERCISE 3

Based on the example above, fill in the blank for the following:

Find the value of x for the following:

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Q1.</p> $\frac{3x - 2}{1 - 2x} = \frac{3}{4}$ | <p>Solution</p> <div style="margin-bottom: 10px;"> <math>\square (\square \square \square) = \square (\square \square \square)</math> </div> <div style="margin-bottom: 10px;"> <math>\square \square \square = \square \square \square</math> </div> <div style="margin-bottom: 10px;"> <math>\square \square \square = \square \square \square</math> </div> <hr style="border: 1px solid blue; margin: 10px 0;"/> <div style="margin-bottom: 10px;"> <math>\square \square \square \square</math> </div> <div style="margin-bottom: 10px;"> <math>\square = \square</math> </div> <div style="margin-bottom: 10px;"> <math>\frac{\square}{\square} = \frac{\square}{\square}</math> </div> <div style="margin-bottom: 10px;"> <math>x = \frac{\square}{\square}</math> </div> |
| <p>Q2.</p> $\frac{2x + 9}{x - 1} = \frac{4}{5}$  | <p>Solution</p> <div style="margin-bottom: 10px;"> <math>\square (\square \square \square) = \square (\square \square \square)</math> </div> <div style="margin-bottom: 10px;"> <math>\square \square \square = \square \square \square</math> </div> <div style="margin-bottom: 10px;"> <math>\square \square \square = \square \square \square</math> </div> <hr style="border: 1px solid blue; margin: 10px 0;"/> <div style="margin-bottom: 10px;"> <math>\square \square \square \square</math> </div> <div style="margin-bottom: 10px;"> <math>\square = \square</math> </div> <div style="margin-bottom: 10px;"> <math>\frac{\square}{\square} = \frac{\square}{\square}</math> </div> <div style="margin-bottom: 10px;"> <math>x = \frac{\square}{\square}</math> </div> |

Q3.

$$\frac{9x - 1}{10} = \frac{x + 1}{2}$$

Solution

$$\square (\square \square \square) = \square (\square \square \square)$$

$$\square \square \square = \square \square \square$$

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$$x = \frac{\square}{\square} = \frac{\square}{\square}$$

Q4.

$$\frac{x + 2}{2 - 3x} = -\frac{3}{4}$$

Solution

$$\square (\square \square \square) = \square (\square \square \square)$$

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$$\square \square \square \square$$

$$\square = \square$$

$$\frac{\square}{\square} = \frac{\square}{\square}$$

$$\square = \square$$

$$x = \frac{\square}{\square}$$