Write each sentence as an equation

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| **Sentence** | **Equation** |
| 1. Twice a number is twenty-eight
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| 1. The quotient of thirty-nine and a number is three
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| 1. Five less than three times a number is forty-six
 |  |
| 1. Three is twenty-one divided by the sum of a number and five
 |  |
| 1. Eric had $197 in his savings account before he was paid his weekly salary. His current savings balance is $429. If Eric deposits all of his earnings, how much money does he earn each week?
 |  |
| 1. Sam owns three times as many marbles as Jenny (J). Ed owns half as many marbles as Jenny. Together they own 45 marbles. How many marbles does Jenny own?
 |  |
| 1. Thirteen is five less than three times a number
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| 1. At the beginning of the month, Matt had $50 in his savings account. He deposited **d** dollars each week and now has $400 in his savings account. How much did Matt deposit each week?
 |  |
| 1. Three-quarters of a number is two-fifths less than thirty-eight.
 |  |
| 1. Britta had read sixty pages of her book at the beginning of November. She read some amount of pages every day since. Now she has read a total of four-hundred pages. How many pages did she read each day?
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| 1. Two times three less than a number is twenty-six
 |  |
| 1. The shortest side of a right triangle is six centimetres and the longest side is ten centimetres.
 |  |
| 1. Aladdin’s carpet flew at ten kilometres per hour for **h** hours and travelled seventy-five kilometres in total.
 |  |
| 1. George was one-hundred fifty centimetres tall and grew **c** centimetres for the next six years. He is now one-hundred eighty centimetres tall.
 |  |
| 1. Bill had six-hundred millilitres of water in his bottle. He drinks forty-five millilitres each hour for **h** hours. He now has one-hundred fifty millilitres in his bottle.
 |  |
| 1. Jars of honey were on sale for four dollars off. Alanna bought three jars of honey for a total price of twenty-four dollars.
 |  |

Solve the following equations for the *variable***x**

|  |  |  |
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| $2x - 12 = x + 18$ | $2x - 3 = 0.4x + 1$ | $\frac{27}{x}+ 4 = 13$ |

$$

Solve the following equations for the *variable***x**

|  |  |  |
| --- | --- | --- |
| $\frac{1}{4}x - 3 = 18$ | $11x - \frac{2}{5} = 4x + 1$ | $\frac{10}{x}+ 3 = 13$ |