

Solve a one-step equation with rational numbers

NAME	DATE	SCORE / 10
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1 Solve for x : $(\frac{2}{5})x = -10$

2 Leo put \$11.85 into a bank account, and the balance is now $-\$2.80$. The equation $x + 11.85 = -2.80$ shows this, where x is the balance before, in dollars. What was the balance before, in dollars?

3 Solve for x : $x - 3.5 = 1.35$

4 A diver goes down 0.8 metres each second, from the surface. After x seconds the diver is at -11.2 metres. The equation $-0.8x = -11.2$ shows this. How many seconds has the diver been going down?

5 Solve for x : $x + \frac{1}{2} = \frac{19}{12}$

6 During the night the temperature fell by 9.4°C , and in the morning it was -12°C . The equation $x - 9.4 = -12$ shows this, where x is the temperature before the night, in $^\circ\text{C}$. What was the temperature before the night, in $^\circ\text{C}$?

7Solve for x: $x + \frac{3}{5} = \frac{1}{4}$ **9**Solve for x: $x + 1.9 = -1.75$ **8**

Leo has read $\frac{5}{6}$ of a book, which is 95 pages. The equation $(\frac{5}{6})x = 95$ shows this, where x is the number of pages in the book. How many pages does the book have?

10

Ben has read $\frac{1}{4}$ of a book, which is 75 pages. The equation $(\frac{1}{4})x = 75$ shows this, where x is the number of pages in the book. How many pages does the book have?

Solve a one-step equation with rational numbers

1 -25

3 4.85

5 $13/12$

7 $-7/20$

9 -3.65

2 -14.65

4 14

6 -2.6

8 114

10 300