Answer on Question #70779 – Math – Algebra

Question

1. If you add $\frac{3}{5}$ of a number to the number itself, you get -32. What is the number?

Solution

Let a number be x. Then

$$\frac{3}{5}x + x = -32$$
$$\left(\frac{3}{5} + 1\right)x = -32$$
$$\frac{5+3}{5}x = -32$$
$$\frac{8}{5}x = -32$$
$$x = -32 \div \frac{8}{5}$$
$$x = -\frac{32}{1} \times \frac{5}{8}$$
$$x = -\frac{4}{1} \times \frac{5}{1}$$
$$x = -20$$

Answer: - 20.