

1. Solve for X:

$$\frac{2\frac{1}{4}}{3\frac{1}{3}} = \frac{x}{2\frac{1}{2}}$$

2. Solve for x

$$\frac{-4\frac{2}{5}}{3\frac{1}{2}} = \frac{-x}{-2\frac{1}{8}}$$

3. Vinnie was reading The Hunger Games. He read $40\frac{1}{4}$ pages in 35 minutes. How many pages did Vinnie read in 1 hour?

4. A recycling plant processes an average of $\frac{1}{6}$ ton of glass each minute. At what rate does the recycling plant process glass, in tons per day?

5. John can mow $4\frac{1}{4}$ acres of land in $1\frac{2}{5}$ of an hour. How many acres of land can he mow in 3.5 hours?

6. Do the following coordinates $(4,12)$ and $(5,15)$ form a proportional line? Justify.

7. The results for a survey of 450 students who were selected randomly are listed below:

- 225 students have Sprint
- 150 students have Verizon
- 75 students have AT&T

If the total population of students were 580, approximately how many students would use Sprint?

8. Two cities are 90 miles from each other. How far apart would the cities be on a map that has a scale of 0.6 in: 10.5 mi.?

9. A convenience store sells two brands of organic milk. Horizon contains 32 fluid ounces and costs \$5.24. Stonyfield contains 64 fluid ounces and costs \$8.80. How much more, per fluid ounce does Horizon cost than Stonyfield?

10. Paint was applied to a triangular patio. The patio had a base of 24 feet and a height of 35.5 ft.

If the total cost of the paint was \$640.20, what was the cost, in dollars, of the paint in square feet?