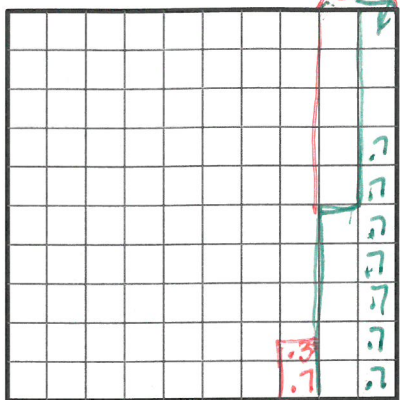


3. 15 is what percent of 70?



amount 14
15% not amount 15

$$\square = \frac{70}{100} = \frac{7}{10} = .7$$

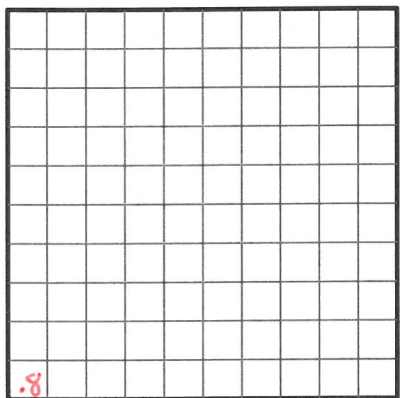
$$15 \div .7 = 15 \div \frac{7}{10} = \frac{15 \times 10}{7} = \frac{150}{7}$$

$$\begin{array}{r} 21.428571 \\ 7 \overline{) 150} \\ \underline{14} \\ 10 \\ \underline{7} \\ 30 \\ \underline{28} \\ 20 \\ \underline{14} \\ 60 \\ \underline{56} \\ 40 \\ \underline{35} \\ 50 \\ \underline{49} \\ 10 \end{array}$$

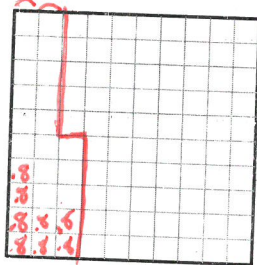
≈ 21.5

4. An increase from 80 to 100 is what percent increase?

$$\square = .8$$



16% of 80

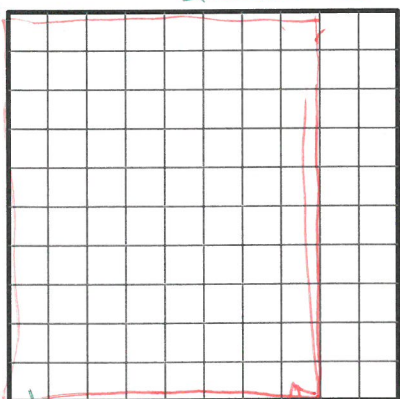


$$\begin{array}{r} 10 \\ 7 \overline{) 30} \\ \underline{21} \\ 90 \\ \underline{84} \\ 60 \\ \underline{56} \\ 40 \\ \underline{35} \\ 50 \\ \underline{49} \\ 10 \end{array}$$

$$\begin{aligned} .8 &= \frac{8}{10} \\ \frac{8}{10} \times 10 &= 8 \\ 20 \div .8 &= 20 \div \frac{8}{10} = 2 \times \frac{10}{8} \\ &= \frac{20}{8} = 2.5 \\ 8 \overline{) 20} \\ \underline{16} \\ 40 \end{aligned}$$

5. A decrease from 100 to 80 is what percent decrease?

100

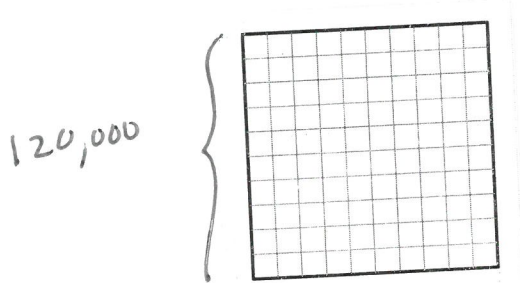


$$\square = 1$$

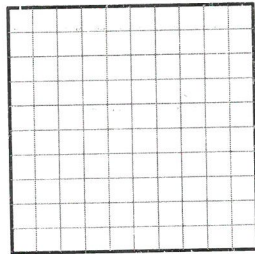
increase by 25% (of 80)
20%

80 amount = 80% of 100
original

I bought a house for \$120,000
 10 years later, the house is worth \$140,000
 by what % did the worth of house increase?



$\square = 1,200$



\sim
 20,000
 more

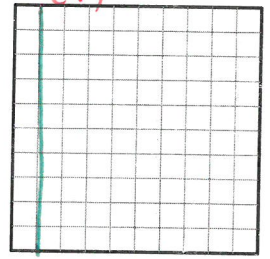
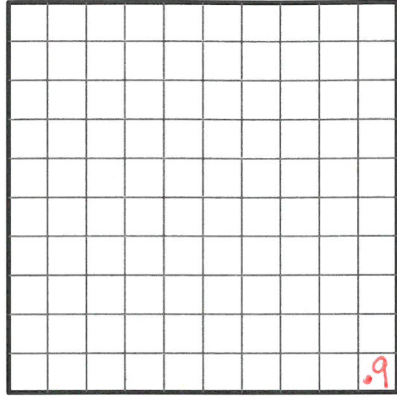
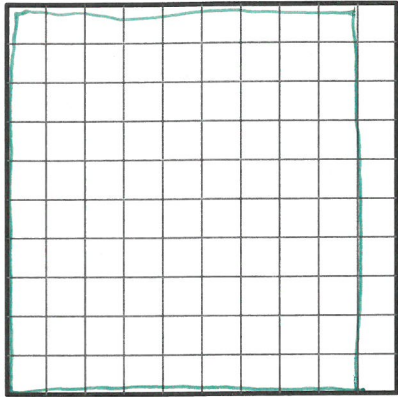
$$\begin{array}{r}
 1200 \overline{) 20,000} \\
 \underline{1200} \\
 8000 \\
 \underline{7200} \\
 800.0 \\
 \underline{7200} \\
 80.0 \text{ etc.}
 \end{array}$$

New value is 16.7% more than
 the original.

New value 116.7% of the original

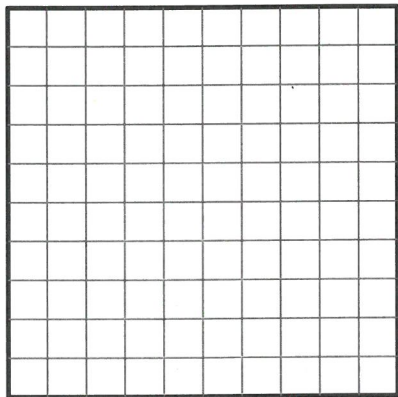
6. If you take a 10% pay cut, and later you get a 10% pay raise, is your pay back to the same amount it was before? If not, how much should the raise have been to bring you back to your original salary?

After cut = 90% of original (900)



Want to get 10 as a % of 90

7. Kara's emporium sells pepper grinders at a mark-up of 20% over the wholesale cost. If the wholesale cost of a pepper grinder is \$26, how much does it sell for retail at Kara's?



$$\frac{10}{90} = \frac{x}{100}$$

$$x = \frac{10 \times 100}{90}$$

$$10 \div .9 = 10 \div \frac{9}{10} = \frac{10 \times 10}{9}$$

8. Kara's is selling the pepper grinders from the previous problem on sale at wholesale cost. What percent discount is that on the usual retail price?

