## UmM ${ }^{3}$ Standy Guld

|  | 1) What value for $x$ makes the proportion true? $\begin{aligned} & \frac{1 / 8}{3 / 4}=\frac{1 / 2}{x} \\ & \frac{1}{8} x=\frac{3}{4}\left(\frac{1}{2}\right) \end{aligned}$ <br> $\frac{1}{8} x=\frac{3}{8} \quad$ (multiply by the reciprocal) $X=3$ | 2) A delivery truck traveled 133 miles in 3.5 hours. What was the average speed of the delivery truck in miles per hour? $\frac{133}{3.5}=38 \text { miles per hour }$ | 3)Lauren jogs at a rate of 2 miles every $\frac{2}{5}$ hour. What is her unit rate? $\frac{2}{2 / 5}=5 \text { miles per hour }$ |
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|  | 4)Which would be the best buy? <br> 7 pencils for $\$ 1.40$ <br> 6 pencils for $\$ 1.35$ <br> 15 pencils for $\$ 13.65$ <br> 8 pencils for $\$ 1.70$ | 5)Jeremy swims $53 / 5$ kilometers in a 7 day period. He swims the same distance ach day. What distance does he swim in a day? $\frac{5 \frac{3}{5}}{7}=\frac{4}{5} \text { or } 0.8 \mathrm{~km} \text { per day }$ | 6)The table represents the price of McDonald's Value Meals. <br> What is the constant of proportionality? $\frac{10.50}{2}=\$ 5.25$ |
|  | 7)Which tables and graphs show a proportional relationship? B, D, and E are proportional relationships | 8)What is the constant of proportionality for the line on the graph below? $\mathrm{K}=1$ | 9)A farmer charges $\$ 6$ for 4 pounds of tomatoes. Write an equation the farmer can use to find how many dollars he should charge for $p$ pounds of tomatoes? $\begin{gathered} \frac{\$ 6}{4}=\$ 1.50 \text { per pound } \\ Y=1.50 x \end{gathered}$ |


|  | 10)A map has a scale of $1 / 2$ inch $=75$ miles. If two cities are $33 / 4$ inches apart, how many miles apart are they really? $\begin{aligned} & \frac{1 / 2}{75}=\frac{3^{3} / 4}{x} \\ & \frac{1}{2} x=281.25 \\ & \text { x. }=562.5 \text { miles } \end{aligned}$ | 11)On a scale drawing with a scale of $1 \mathrm{~cm}: 0.75 \mathrm{~m}$, the height of a tree is 6.5 cm . How tall is the actual tree? $\frac{1 \mathrm{~cm}}{0.75 \mathrm{~m}}=\frac{6.5 \mathrm{~cm}}{x}$ | 12)On a blueprint, a guest bedroom has dimensions 3 cm by 5 cm . If the blueprint is drawn using the scale of $1 / 2 \mathrm{~cm}=2 \mathrm{ft}$, what is the actual AREA of the guest bedroom? $240 f t^{2}$ <br> See weekly warm up for how to solve. |
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|  | 13)Jake sold a total of $\$ 8,400$ worth of clothing last week at his store. If his commission is $12 \%$ of sales, how much commission did he earn? $8400 \times 0.12=\$ 1,008$ | 14)Angie has $\$ 1,032$ in her savings account. If the bank pays $3.5 \%$ simple interest on savings, how much does she earn in one year? ( $I=\operatorname{Prt}$ ) $\begin{gathered} I=1032 \times 0.035 \times 1 \\ I-\$ 36.12 \end{gathered}$ | 15)The $\$ 249.99$ baseball bat that Mrs. King purchased was on sale for $15 \%$ off. What amount did Mrs. King get off the price? $249.99 \times 0.15=\$ 37.50 \text { off }$ |
|  | 16)A store spends $\$ 10$ for each pair of Brand $X$ jeans and adds a $120 \%$ markup to the cost. What is the selling price of the jeans? $\begin{gathered} 10 \times 1.2=12 \\ 10+12=\$ 22 \text { selling price } \end{gathered}$ | 17)Coretta's bowling average decreased from 158 to 133 . What is the percent decrease to the nearest tenth of a percent? $\frac{\text { change }}{\text { original }}=\frac{158-133}{158}=\frac{25}{158}=15.8 \%$ | 18)A backpack that normally sells for $\$ 39$ is on sale for $33 \%$ off. Find the amount of the discount and the sale price. $\begin{gathered} \text { Discount= } \$ 12.87(39 \times 0.33) \\ \text { New Sale Price }=\$ 26.13(39-12.87) \end{gathered}$ |

