

GMF
How am I doing?

C. 1. C

$$A. 2. \frac{12.50 \times 8}{100} \quad 0.70 \times 78 \quad 154.60$$

$$54.60$$

$$A. 3. \frac{\text{Euros}}{\text{CAD}} \quad \frac{1}{1,580,814} = \frac{350}{x} \quad \text{Canada (proper)}$$

$$553.28 = x \text{ (Canadian \$)}$$

OK

$$\frac{1}{1,580,814} = \frac{x}{550}$$

$$1,580,814 x = 550$$

$$x = 347.9 \text{ (euros)}$$

$$D. 4. \frac{250,000 \times 0.142}{36500}$$

$$A. 5. \frac{1.54}{150g} - 30\% \text{ off} \rightarrow 1.54 \times 0.30 = 0.46$$

$$\frac{1.08}{150g} \quad \frac{1.54 - 0.46}{1.08}$$

$$\frac{1.08}{150} = 0.0072/g$$

$$0.0072/g \times 302g$$

$$2.17$$

C 6. 49 hour
 35 regular
 14 overtime

$$B \ 7. \ 26.25 \times 35 \quad \begin{array}{l} \text{overtime} \\ (26.25 \times 1.5) \times 14 \\ 39.38 \times 14 \\ 551.32 \end{array}$$

$$+ \quad \begin{array}{l} \text{overtime hours} \\ 39.38 \times 14 \\ 551.32 \end{array}$$

1470.07

$$A \ 8. \ A = P \left(1 + \frac{r}{n}\right)^{nt}$$

$$= 6000 \left(1 + \frac{0.04}{2}\right)^{2(5)}$$

$$= 6000 \left(1 + 0.02\right)^{10}$$

$$= 6000 (1.02)^{10}$$

$$= 6000 (1.21899442)$$

$$= 7313.97$$

$$\begin{array}{r} * \ 7313.97 \\ - \ 6000 \\ \hline 1313.97 \end{array}$$

$$B \ 9. \ 108.56 \times 0.20 = 21.71$$

$$108.56 - 21.71 = 86.85$$

$$86.85 \times 1.13 = 98.14$$

$$C \ 10. \ A = P \left(1 + \frac{r}{n}\right)^{nt}$$

$$= 6650 \left(1 + \frac{0.0434}{4}\right)^{(4)(6)}$$


$$= 6650 (1 + 0.01085)^{24}$$

$$= 6650 (1.01085)^{24}$$

$$\left. \begin{array}{l} A = 6650 (1.295630522) \\ = 8615.94 \end{array} \right\}$$

B 11. $I = Prt$
 $= 680 (0.1965) \left(\frac{28}{365}\right)$
 $= 680 (0.1965) (0.076712328)$
 $= 10.25$

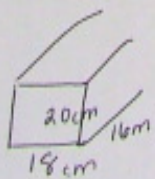
B 12. $2500 - (70.50 + 36.47 + 30 + 65.70)$
 2297.33

D 13. inches 

C 14. $605 \text{ yds} \times \frac{3 \text{ feet}}{1 \text{ yds}}$
 1815

C 15. $8 \text{ Km} \times \frac{1 \text{ mi}}{1.6093 \text{ Km}}$
 4.97

$12 \text{ Km} \times \frac{1 \text{ mi}}{1.6093 \text{ Km}}$
 7.5 mi

B 16. 
 $20 \text{ cm} = 0.2 \text{ m}$
 $18 \text{ cm} = 0.18 \text{ m}$

$\$55/\text{m}^3$

$V = l \times w \times h$
 $= 0.2 \times 0.18 \times 16$
 $= 0.576$

$\$55 \times 0.576$
 $\$31.68$

$$D \ 17. \ 15 \text{ inches wide} \times \frac{2.54 \text{ cm}}{1 \text{ in}} \\ 38.1 \text{ cm}$$

$$A \ 18. \ C = \frac{5}{9} (F - 32) \\ = \frac{5}{9} (15 - 32) \\ = 0.5 (-17) \\ = -9.4^\circ F$$

$$B \ 19. \ 68.7 \text{ g} = \text{---} \text{ oz} \\ 68.7 \text{ g} \times \frac{1 \text{ oz}}{28.4 \text{ g}} \\ 2.42 \text{ oz}$$

$$C \ 20. \ 72 \text{ Kg} \times \frac{2.2 \text{ lbs}}{1 \text{ Kg}} \qquad 1000 \div 158.4 \\ 158.4 \text{ lbs} \qquad 6.3 \\ \underline{6 \text{ people}}$$

$$A. \ 21. \ 400 \text{ Kg} \times \frac{1 \text{ cords}}{370 \text{ Kg}} \\ 1.08 \text{ cords} \times 250 \\ 270.27$$

B 22. $V = \frac{\text{area of base} \times h}{3}$

$$= \frac{\pi r^2 \times h}{3}$$

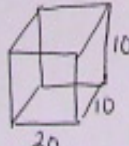
$$= \frac{(3.14)(10)^2 \times 25}{3}$$

$$= \frac{(3.14)(100) \times 25}{3}$$

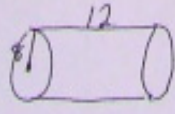
$$= \frac{(314)(25)}{3}$$

$$= \frac{7850}{3}$$

$$= 2616.67 \text{ cm}^3$$

D 23.  Top/Bottom Front/back Side/Side

$A = L \times w$	$A = L \times w$
$= 20 \times 10$	$= 10 \times 10$
$= 200$	$= 100$
$\frac{\times 2}{400}$	$\frac{\times 2}{200}$
	$+ 200$
	<u>600</u>

C 24.  $SA = 2\pi r^2 + 2\pi r h$

$$2(3.14)(8)(12)$$

$$602.88$$

25. $\textcircled{14}$ $20-3-3$ $\textcircled{34}$ $40-3-3$ $\textcircled{3}$

$V = L \times w \times h$
 $= 14 \times 34 \times 3$
 $= 1428$

B

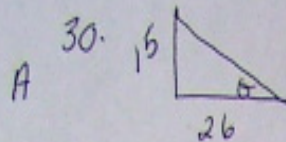
C 26. C

B 27. Alternate interior

A 28. $c^2 = a^2 + b^2$
 $= 32^2 + 180^2$
 $= 1024 + 32400$
 $\sqrt{c^2} = \sqrt{33424}$
 $c = 182.8$

$\textcircled{182}$

C 29. $\tan \theta = \frac{\text{opp}}{\text{adj}}$
 $\tan 56 = \frac{x}{40}$
 $1.4825 = \frac{x}{40}$
 $x = 59.3$



$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$\tan \theta = \frac{15}{26}$$

$$\tan \theta = 0.5769$$

$$\theta = 30^\circ$$

D 31.
$$\begin{array}{r} 3500 \\ - 12 \\ \hline 291.67 \end{array}$$

$$\begin{array}{r} 4500 \\ - 291.67 \\ \hline 4208.33 \end{array}$$

$$\begin{array}{r} 4208.33 \\ \times 0.0495 \\ \hline 208.31 \end{array}$$

B. 32.
$$\begin{array}{r} 90 \\ - 68 \\ \hline 22 \end{array}$$