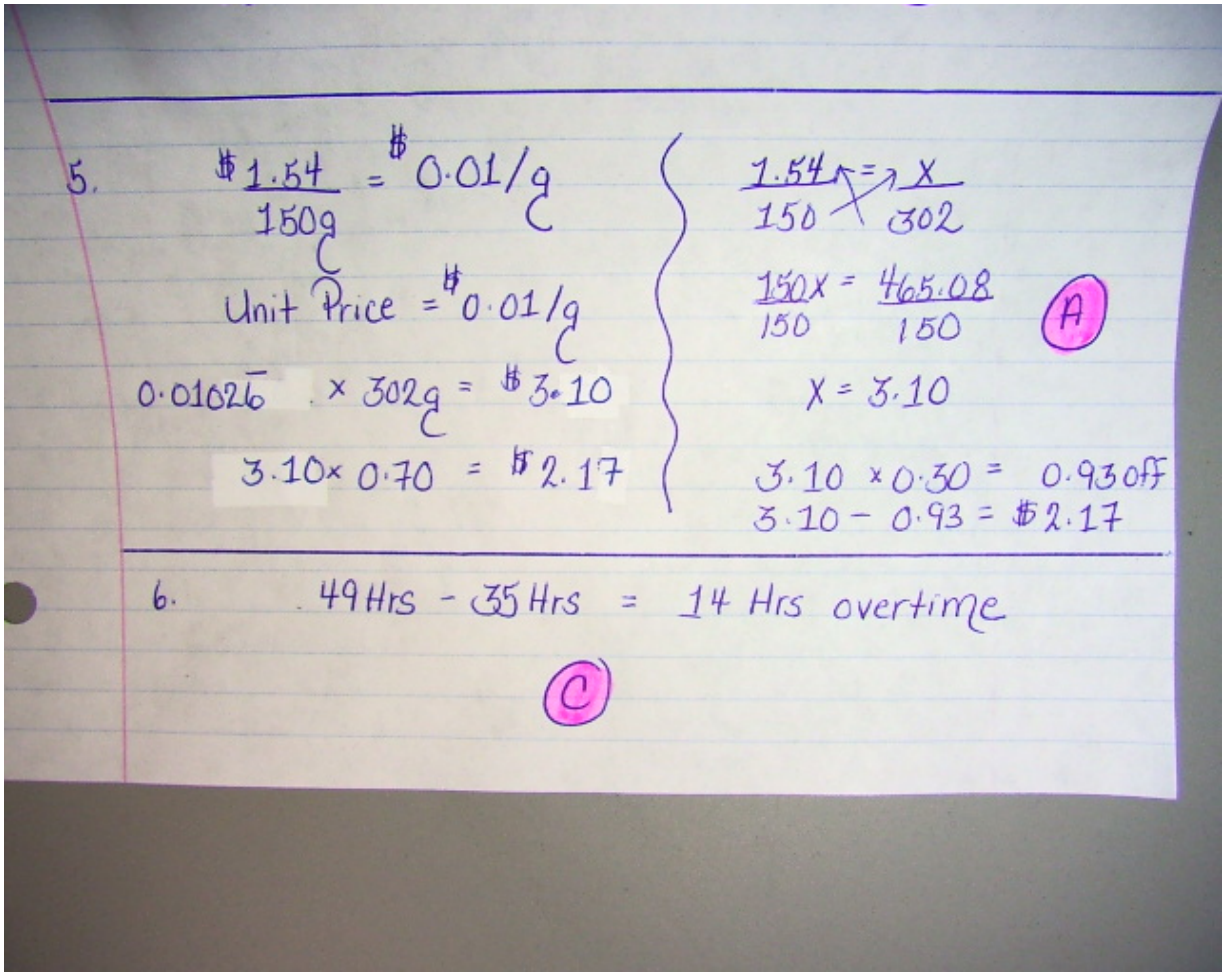
GMF - PRACTICE EXAM

1. © Commission

2. 8 Hrs × 12.50 = $100.00
$78 × 0.70 = $ 54.60
= $154.60 (A)

3. $\frac{1}{\text{Rate}} = \frac{\text{For.}}{\text{Can.}}$
$\frac{1}{1.580814} = \frac{350}{X}$ (A)
X = $553.28 or $550.00
Cheaper in Canada

4. $250 000 × 0.142 = $35,500 (D)



5. $\frac{฿1.54}{150g} = ฿0.01/g$ (C)

Unit Price = ฿0.01/g (C)

$0.010\overline{26} \times 302g = ฿3.10$ (C)

$3.10 \times 0.70 = ฿2.17$

$\frac{1.54}{150} = \frac{x}{302}$

$\frac{150x}{150} = \frac{465.08}{150}$ (A)

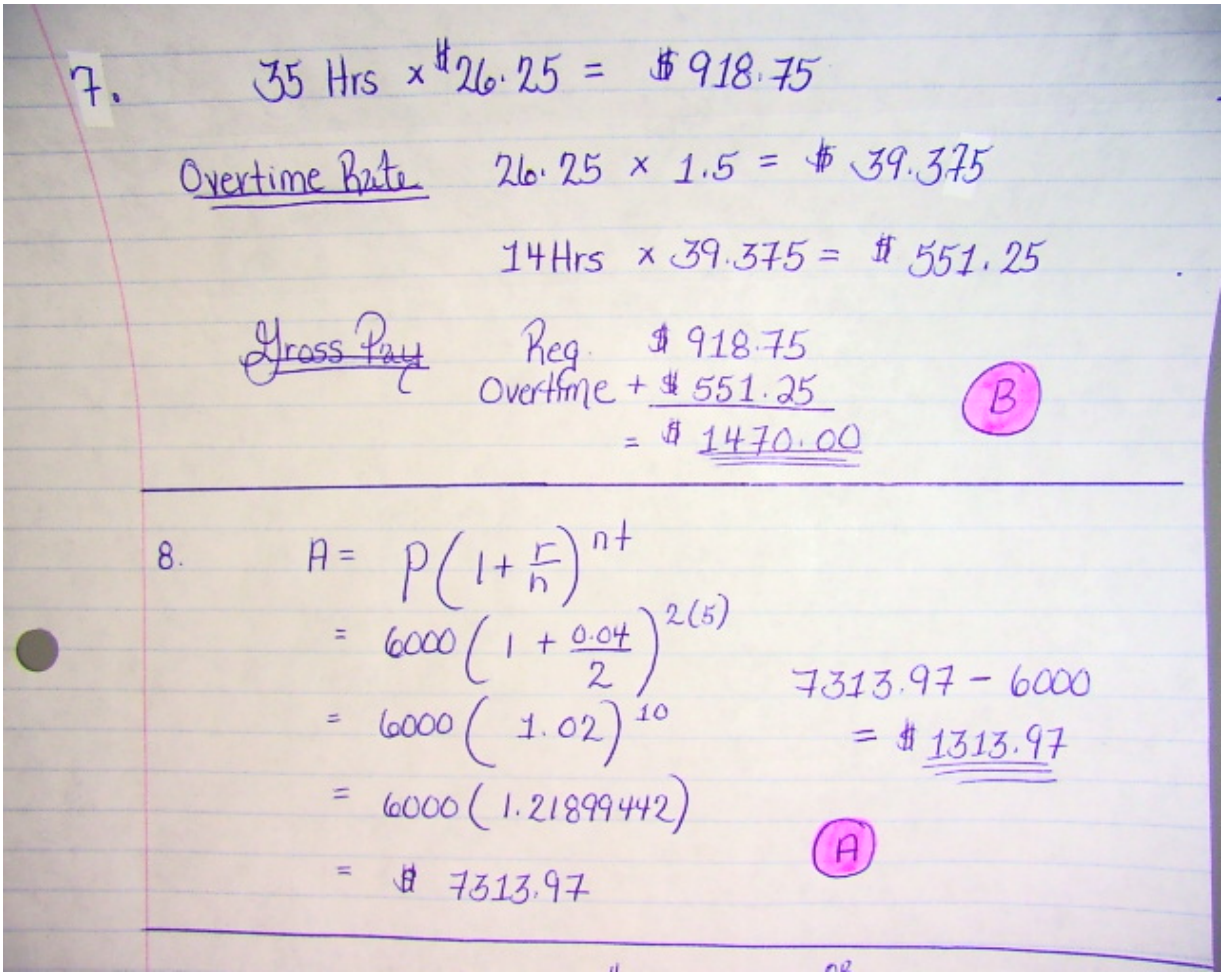
$x = 3.10$

$3.10 \times 0.30 = 0.93$ off

$3.10 - 0.93 = ฿2.17$

6. 49 Hrs - 35 Hrs = 14 Hrs overtime

(C)



7. 35 Hrs × $26.25 = $918.75

Overtime Rate 26.25 × 1.5 = $39.375

14 Hrs × 39.375 = $551.25

Gross Pay Reg. $918.75
Overtime + $551.25
= $1470.00

B

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

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

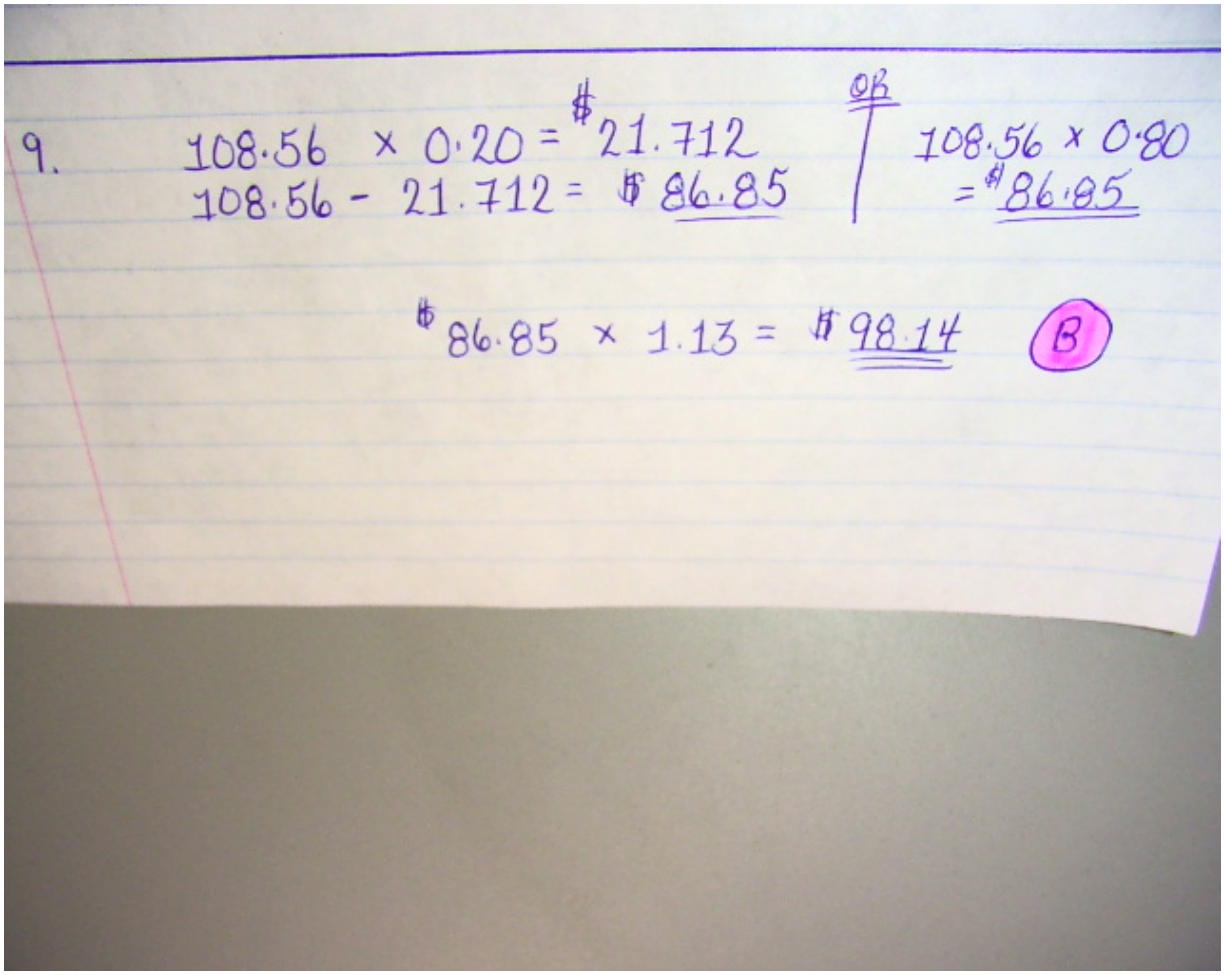
$= 6000\left(1.02\right)^{10}$

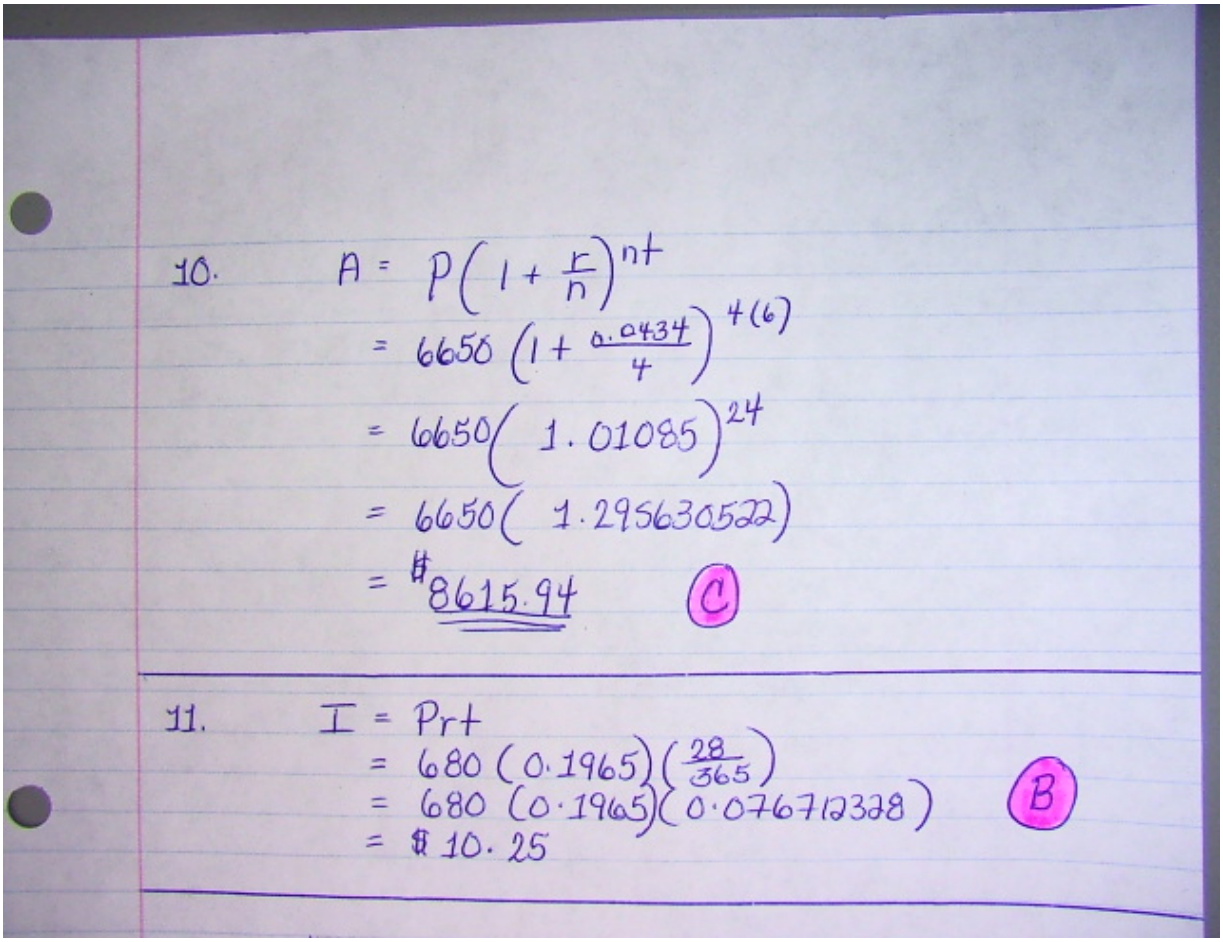
$= 6000(1.21899442)$

$= \$7313.97$

7313.97 − 6000
= $1313.97

A


9.
108.56 × 0.20 = $21.712
108.56 - 21.712 = $86.85
OR
108.56 × 0.80
= $86.85
$86.85 × 1.13 = $98.14
B



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

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

$= 6650(1.01085)^{24}$

$= 6650(1.295630522)$

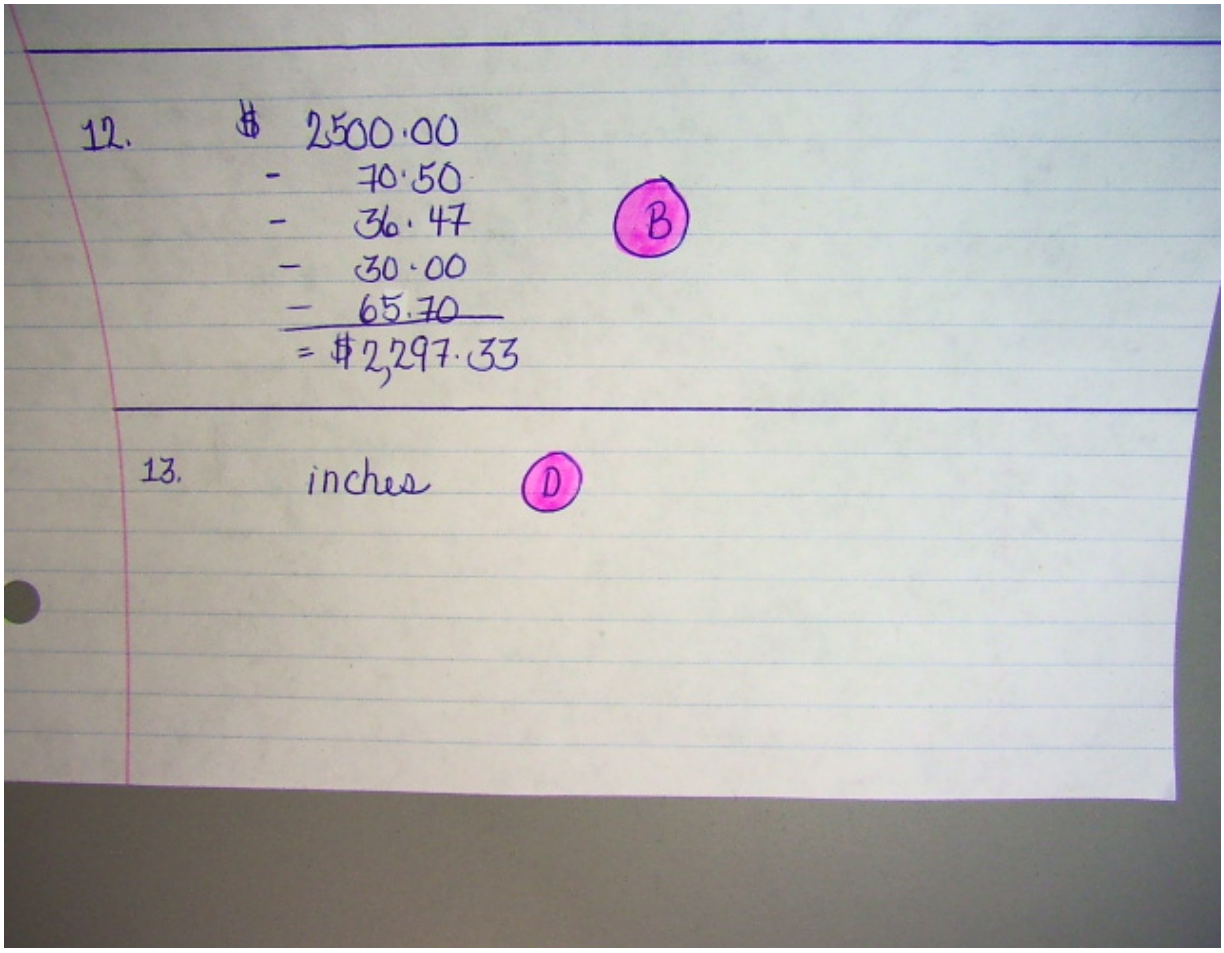
$= \$8615.94$ (C)

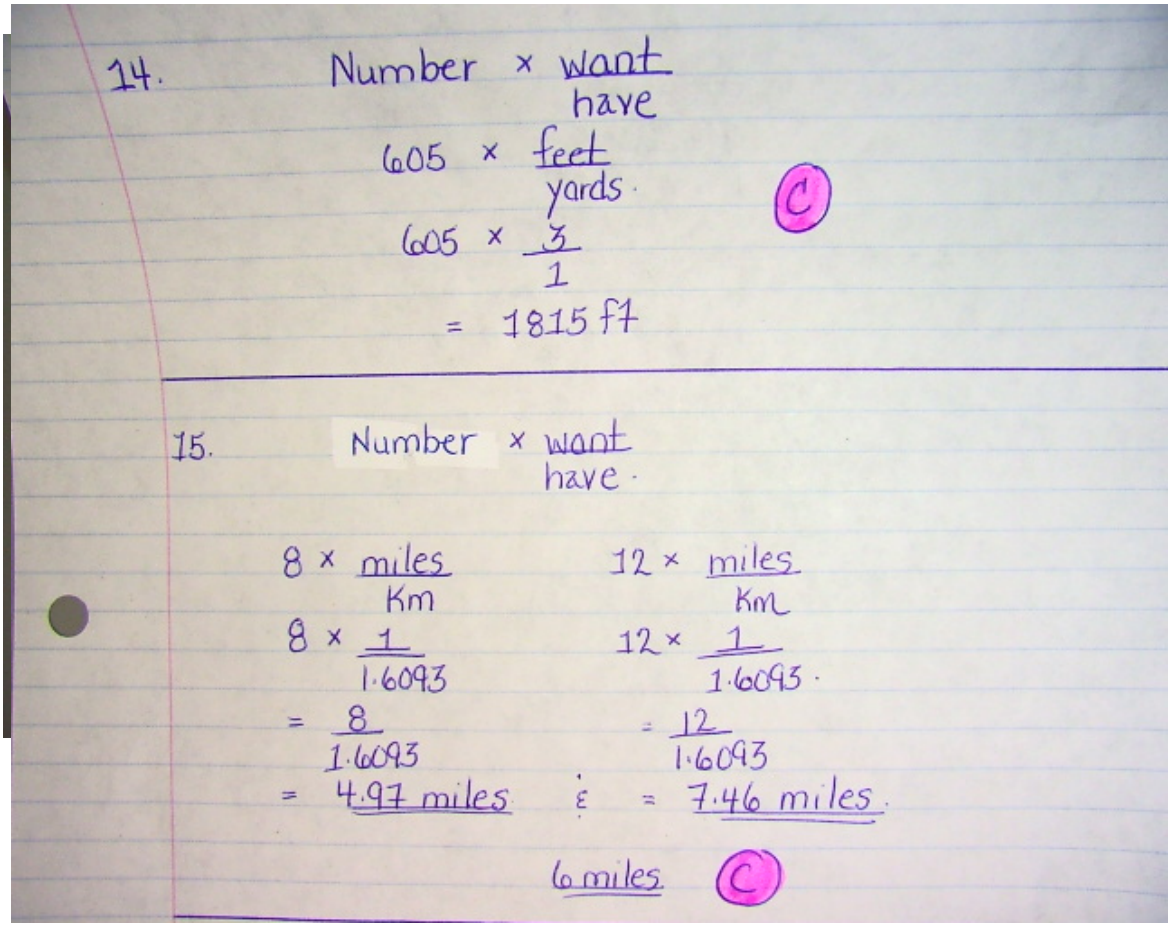
11. $I = Prt$

$= 680(0.1965)\left(\frac{28}{365}\right)$

$= 680(0.1965)(0.076712328)$

$= \$10.25$ (B)


12.
$ 2500.00
- 70.50
- 36.47
- 30.00
- 65.70
= $2,297.33
B
13.
inches
D



14. Number × want / have

605 × feet / yards

605 × 3/1

= 1815 ft

(C)

15. Number × want / have

8 × miles / Km

8 × 1/1.6093

= 8/1.6093

= 4.97 miles

12 × miles / Km

12 × 1/1.6093

= 12/1.6093

= 7.46 miles

∴ 6 miles (C)

1.6093

$= \frac{8}{1.6093}$

$= 4.97$ miles

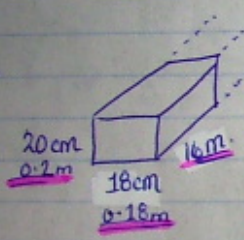
1.6093

$= \frac{12}{1.6093}$

$\therefore = 7.46$ miles.

6 miles (C)

16.



1st Number × want / have.

$20 \times \frac{m}{cm} = 20 \times \frac{1}{100} = \frac{20}{100} = 0.2m$

$18 \times \frac{m}{cm} = 18 \times \frac{1}{100} = \frac{18}{100} = 0.18m$

2nd

$V = L \times W \times H$

$= 16 \times 0.18 \times 0.2$

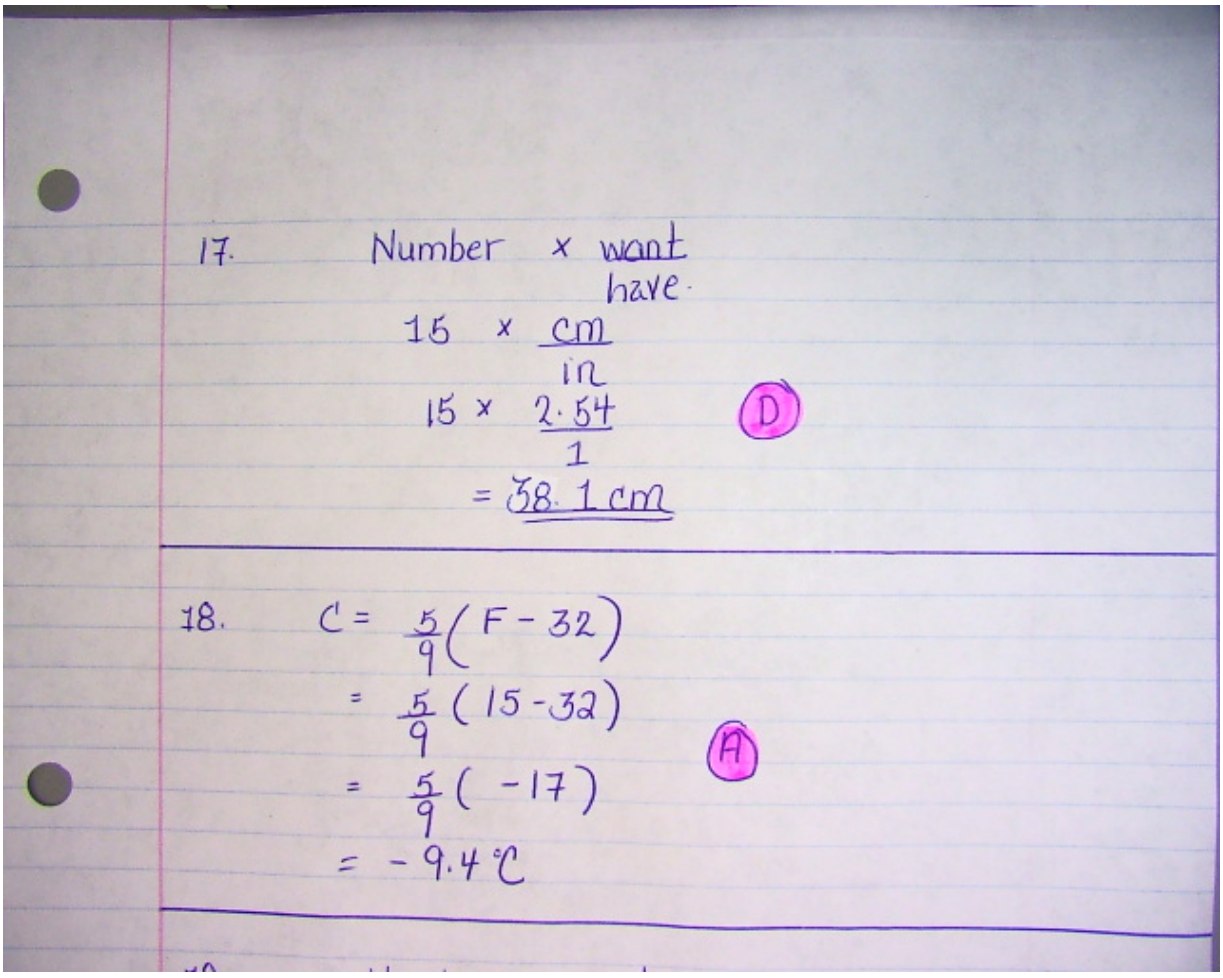
$= 0.576 m^3$

3rd

0.576×55

$= \$31.68$

(B)



17. Number × want / have

$15 \times \frac{cm}{in}$

$15 \times \frac{2.54}{1}$ (D)

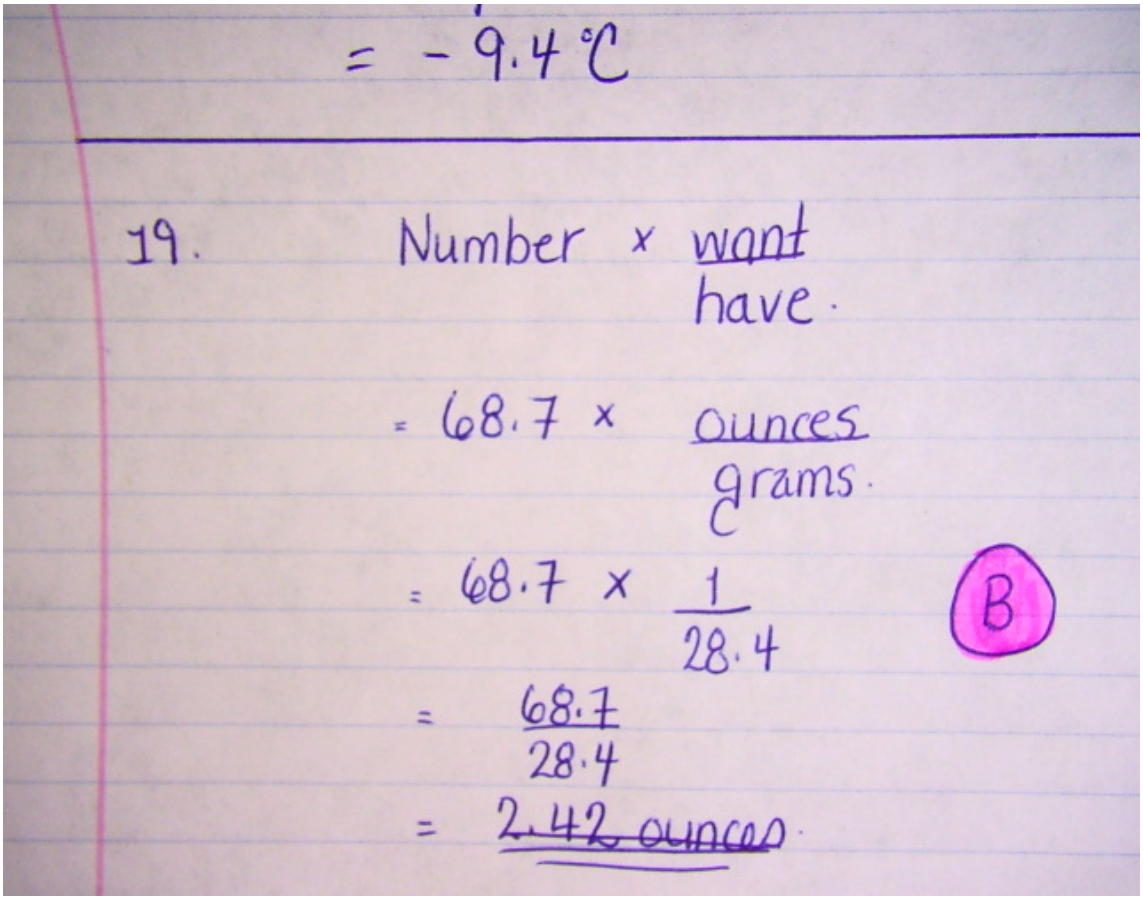
$= 38.1\ cm$

18. $C = \frac{5}{9}(F - 32)$

$= \frac{5}{9}(15 - 32)$ (A)

$= \frac{5}{9}(-17)$

$= -9.4\ ^\circ C$



$= -9.4\,^{\circ}C$

19. Number $\times$ $\frac{\text{want}}{\text{have}}$.

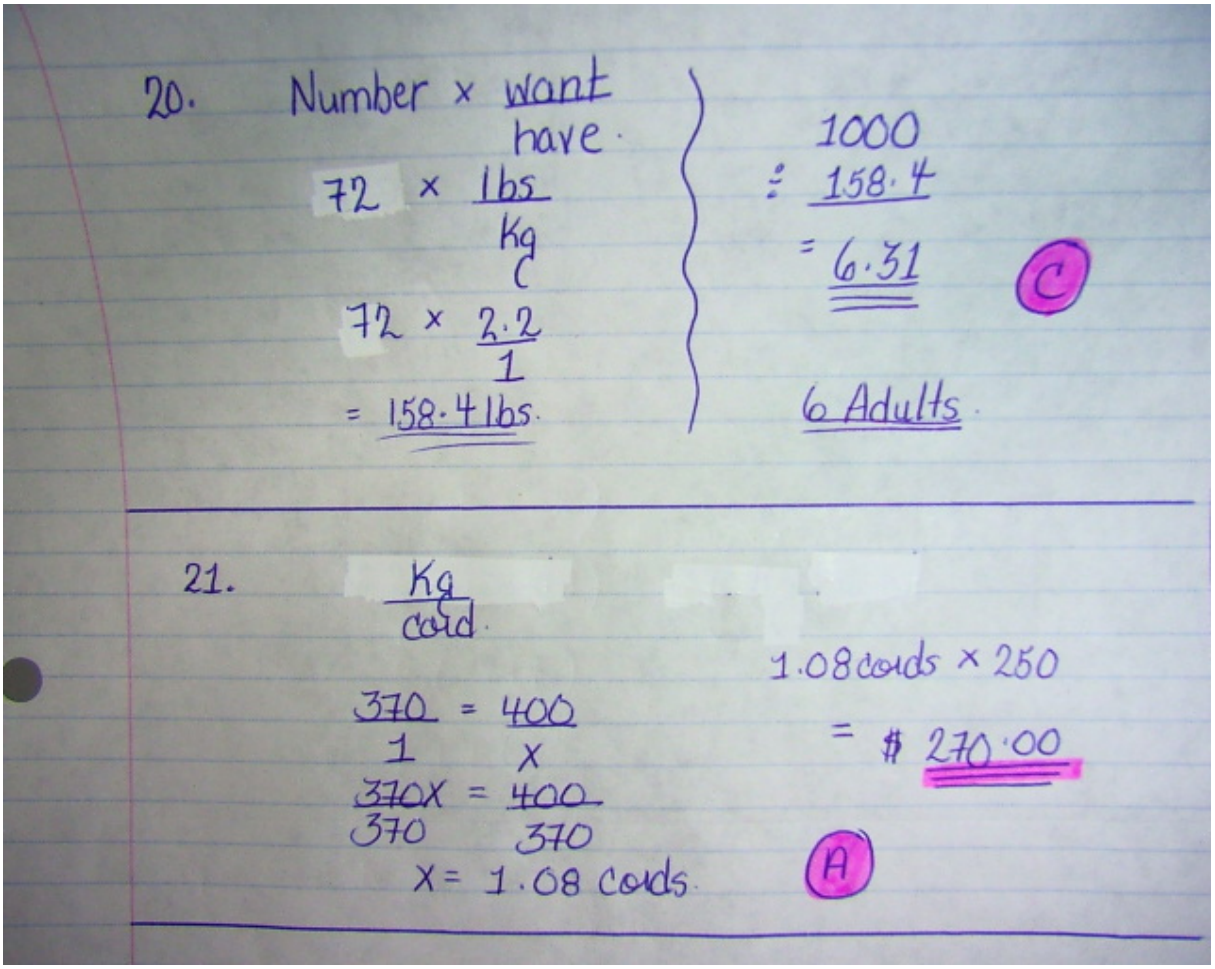
$= 68.7 \times \frac{\text{ounces}}{\text{grams}}$.

$= 68.7 \times \frac{1}{28.4}$

B

$= \frac{68.7}{28.4}$

$= 2.42$ ounces.



20. Number × want / have.

72 × lbs / kg (C)

72 × 2.2 / 1

= 158.4 lbs.

1000 ÷ 158.4

= 6.31

6 Adults.

21. Kg / cord.

370 / 1 = 400 / X

370X / 370 = 400 / 370

X = 1.08 cords.

1.08 cords × 250

= $ 270.00

(A)

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

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

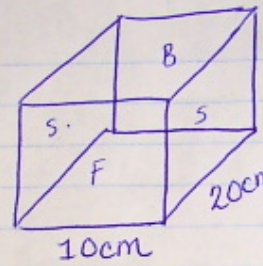
$= \frac{3.14(100) \times 25}{3}$

$= \frac{7850}{3}$

$= 2616.67\ cm^3$

B

23.



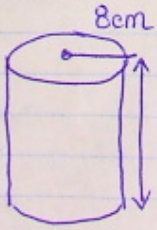
Sides: $2(20 \times 10)$ $2(200)$ $= 400\text{cm}^2$

F & B: $2(10 \times 10)$ $2(100)$ $= 200\text{cm}^2$

$400 + 200 = 600\text{cm}^2$

D

24.



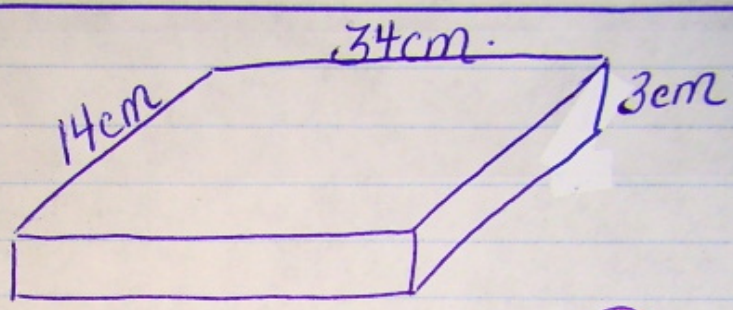
$SA = 2\pi r^2 \times 2\pi rh$

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

$= 602.88\text{cm}^2$

C

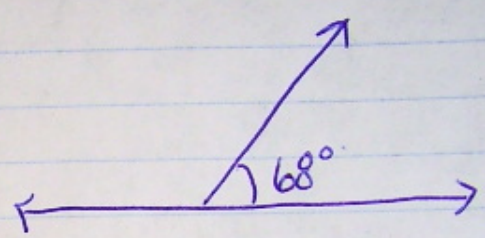
25.



B

$V = L \times W \times H$
$= 34 \times 14 \times 3$
$= 1428\ cm^3$

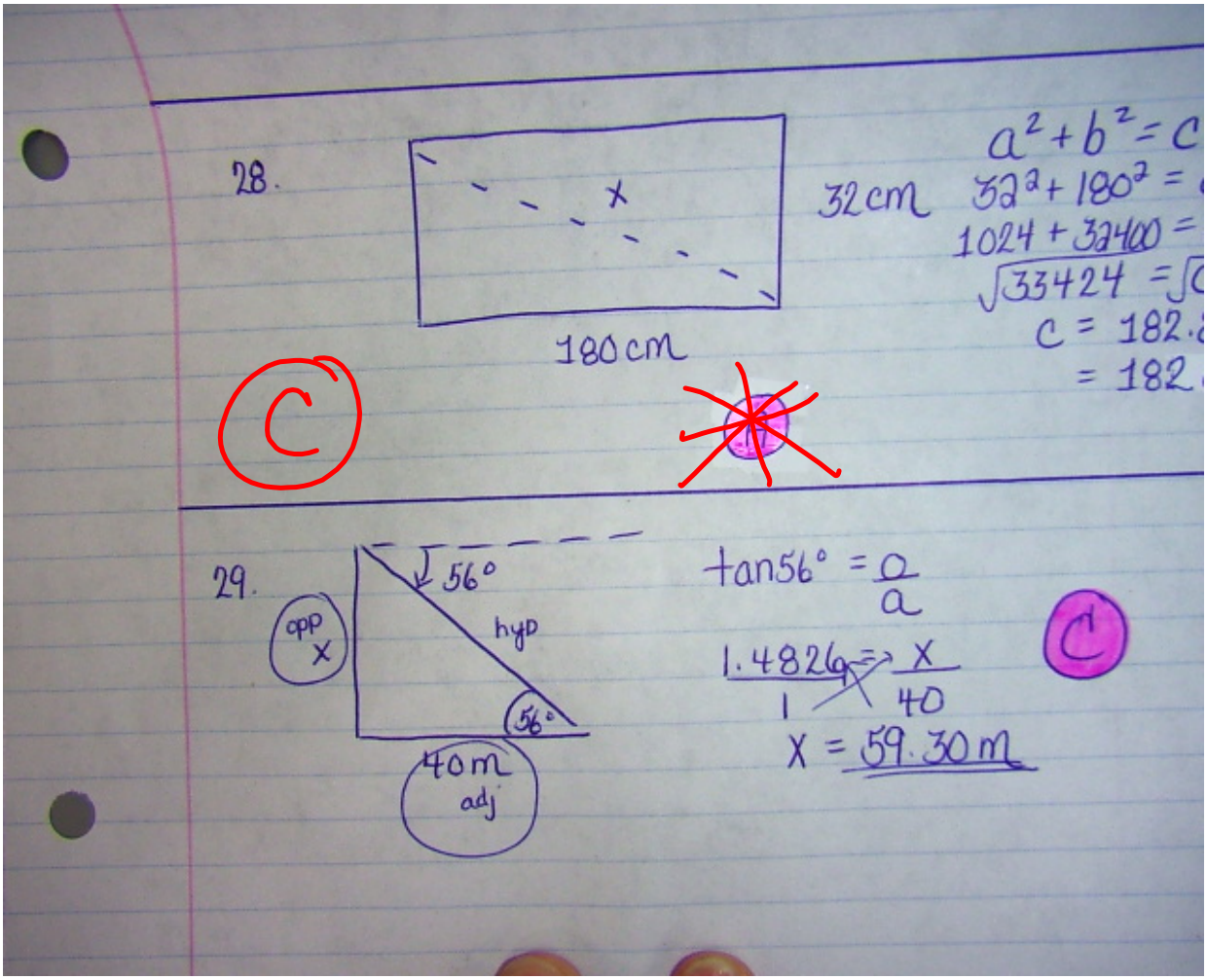
26. C



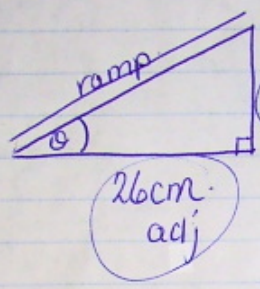
$180 - 68^\circ = 112^\circ$
Supplementary.

27. "Z" Rule Alternate Interior.

B


28.
x
32cm
180cm
$a^2+b^2=c$
$32^2+180^2=$
$1024+32400=$
$\sqrt{33424}=\sqrt{c}$
$c=182.$
$=182$
C
29.
56°
opp
x
hyp
56°
40m
adj
$\tan 56° = \frac{a}{a}$
$\frac{1.4826}{1} = \frac{x}{40}$
$x = 59.30\,m$
C

30.



$\tan\theta = \frac{o}{a}$

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

$\theta = 30^\circ$

A

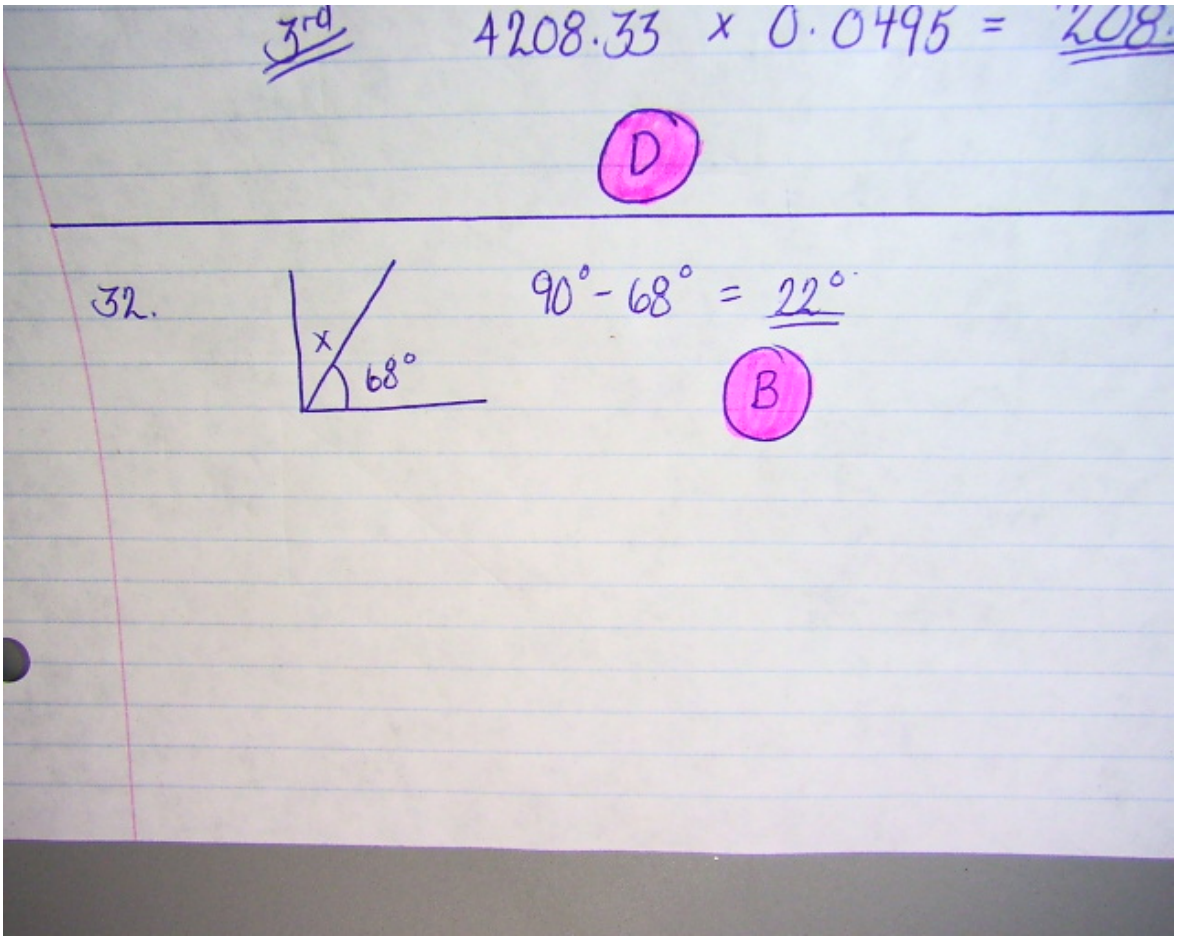
31.

1st $\frac{3500}{12} = \#291.67$

2nd $4500 - 291.67 = \#4208.33$

3rd $4208.33 \times 0.0495 = \#208.31$

D


3rd
4208.33 x 0.0495 =
D
32.
x
68°
90° - 68° = 22°
B