```
again, for Ms. allman's
                                                     alass 161 -- please scan!
   HW # 6 1.6°, 20, 22, 24, 26, 28, 62, 72
20 say m = # of messages, so monthly Bill =
                                                         thank you i
                      B= 10+0.10 (m-1000)
                                                           -Kaylee
      given B=38.5 solve.
                      38-5=10+0.101m-1000)
                     0.10 = m-1000
                        m = 1285 messages
22) let m= amount invested at 5.5%, so 4000 + m = total amount invested.
                4.5% of total investment = interest earned at 4% + interest earned at 5.5%
                  .045 (4000+m) = 0.04 (4000) + 0.055m
                       180+.045m= 160+0.055m
                                20 = 0.01 m
                                m = $ 2000
24) interest rate for 1000 = a%, interest rate for 2000 = (a+ \pm )%
      Total interest I = 1000. 100 · 1 + 2000 · a+2 · 1
                       = 10a + 20a + 10
    given I=$190 190=30a+10
                    180 = 30a a=6: 1000 invested @ 6% interest
26 S = Husband's solary
                        69875 = 1.155 + 8
                        69875 = 2.158
                                                 5 = 32,500
                                            so Husbands annul salary = $ 32,500
28) x = # of Hours
                      352.50 = (7.50)(35) + (7.50)(1.5)(x)

1) pay 3 regular hours

worth of pay

worth of pay
                   Total pay &
                     352.50 = 262.50 + 11.25 x
                          90 = 11.25 \times
                                                         x = 8 hours overtime
```

	in minutes		<u>Inminutes</u>		
	t = time for Hilda to man = $40(\frac{1}{2}) + 40(\frac{1}{2}) =$, 2t= time		to man the lawn
	40+20 = t = 60 minutes for 1411			for Hilda	and the second control of the second control
and the second s	t= 120 minutes for Stan				
***	,				
72) let x = rate (mi) at which Kiran drove from Tortula to Cactus					
	cities	Distance	Rate	Time	
	Tortula -> Cactus	250	X	250 X	t = distance rate
	Cactus -> Dry Junction	360	1 x+10	360 x+10	en i den kombon tri i en di organismo kantanno kun nombon kan i talah un tangan dalamban dan ke
		and the second s			o de como con esta como como como de c
given: botal time = 11 hours so, $11 = \frac{250}{x} + \frac{360}{x+10}$					
1/x(x+10) = 250(x+10) + 360x					
11x1+110x = 250x+2500 + 360x					
$11x^2 - 500x - 2500 = 0$					
	$x = -(-500) \pm \sqrt{(-500)^2 - 4(11)(2500)}$				
and the second s	2(11)				
$= 500 \pm \sqrt{360,000} = 500 \pm 600$					
	2.2	22	THE RESERVE THE PROPERTY OF TH	rapidata - Mahada da Marada da Sarada da	
A STATE OF S	so, Kiran drove - 4.5	. •			
	drove 50 th	n between	Tortula an	d Cactus.	
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			and the second s		
The second secon	and the second s	COMPLETED TO BE ARRESTED TO THE TOTAL ARREST AND ARREST AT THE SECOND AR		and the second s	