Anna Denisova Section 1.1 Translating Words into Equations

The second section is a second section in				
+	1 647	X	0	=
plus	minus	multiply	divide	equals
add	less than	times	quotient	is
more than	Subtract	by	fraction	exact
8um	take away	product	lover	creates
and	difference	deuble	ratio	same as
combine	remove	repeated	of	makes
			V	

es. Convert into algebra m = 60

(a) the product of a number and five (is) sixty

5 m = 60

6 seven times a number plus another is five, 72+4=5

es. Investing

Bob invested an amount at 6% and another amount at 3%.

Write an expression for:

@ total amount invested let or represent amount invested at 6% let y represent amount invested at 3%

Q total interest: 0.06x+0.034

@ new amount: 1,06x+1.034

el Speed

A car is driving in km/h. Wind travels 32 km/h.

Write an expression for speed!

@ with wind

oc + 32

let a represent speed of car (km/h).

@ against wind 2-32

Section 1.5a Anna Denisova Aug 26, 22 Word Problems 1) basic - age, measurement 4 Speed today 17 investing 4 current today 47 mixing le Bob had \$1000 to invest. He puts part in Stocks at 4% and the rest in bonds at 5%. Total interest after 1 year is \$44. How much was invested at each rate? let a represent the amount invested in stocks. (#) in bonds. (1) 0x+y=1000 - x+000 = 44000 = 1000-y 20.04x+0.05y=44000 = 4x+5y=4400. Bob put \$600 into stocks and Suby into 4 \$ 400 into bonds. 4(1000-y)+5y=4400 x= 1000 - 400 4000 - 49+54 = 4400 x = 600 4 = 400 ey. Mixing - you need 100L of 42% acid sol". The acid solutions available are 30% and 50%, by volume, flow many Loy each are needed the number of litres of 30% sol, (L) let a represent let y represent the # $\begin{cases} 0 x + y = 100 & 0 + 3 \\ 0 0,3x + 0.5y = 0.42(100) & 3x + 3y = 360 \\ 3x + 5y = 420 \end{cases}$ 3)-4) sub y into 0' x 460 = 100 A be careful 4=60 . . You would need 40L of 30% & 60L of 50%, DC = 40]

