

Embedded Assessment #2 p. 211 "School Book Fair"

1a. *Paige has \$5

*Wants 3 paperback books, each paperback \$7.50

$$\begin{array}{ccc} 3(7.50) - 5 & & \\ \downarrow & \downarrow & \downarrow \\ \text{books} & \text{cost of} & \text{Paige's} \\ & \text{paperback} & \$5.00 \end{array}$$

$$\begin{aligned} & 3(7.50) - 5 \\ & 22.5 - 5 \\ & = \$17.50 \text{ still needed} \end{aligned}$$

1b. *Lesley has \$17

*Reference book \$10.25

$$\begin{aligned} & 17 - 10.25 \\ & = \$6.75 \text{ in change} \end{aligned}$$

1c. Lesley has \$6.75 left to spend, she can't spend more than \$6.75

x = amount Lesley can spend

$$x \leq 6.75$$

$\downarrow$ Lesley can spend $\downarrow$ Less than or equal to



1d) Lesley does not have enough money to buy a paperback book.

A paperback book costs \$7.50 but Lesley only has \$6.75 left to spend.

2) x = total amount of money for 4 kids
Each child has \$11.50 to spend

$$\frac{x}{4} = 11.50$$

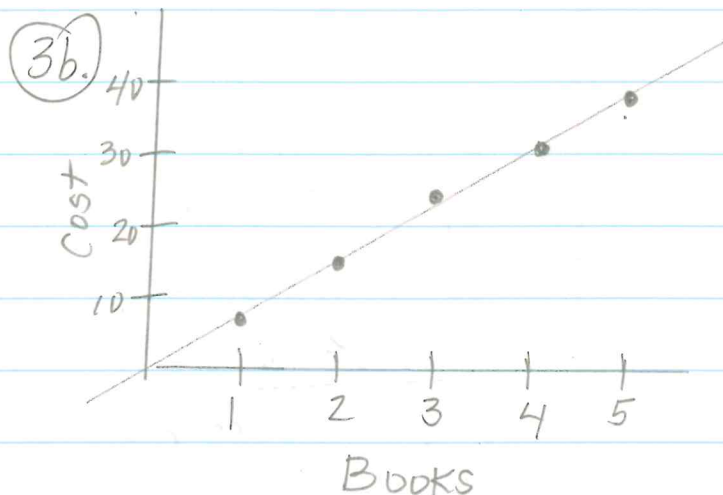
$$\text{or, } 11.50(4) = x$$

$$\text{\$46.} = x$$

$$\cancel{\left(\frac{4}{1}\right)} \times \frac{1}{4} x = \frac{11.50(4)}{1}$$

$$x = \text{\$46. total}$$

3a. # of books	Cost
0	0
1 x 7.50	7.50
2 x 7.50	15.00
3 x 7.50	22.50
4 x 7.50	30.00
5 x 7.50	37.50



3c) x = # of books, independent variable

y = total cost of books; dependent variable

Must know # of books buying to determine total.

$$(7.50)(x) = y$$

- (3d.) Marcus wants 8 paperback books
Each paperback costs \$7.50

Use substitution:

$$7.50(x) = y$$
$$7.50(8) = \$60.00$$

- (3e.) Marcus's friend has \$97.50 to spend.
Paperback = \$7.50

Use substitution:

$$7.50(x) = y$$
$$\frac{7.50x}{7.50} = \frac{97.50}{7.50}$$

$$x = 13 \text{ paperback books}$$