

STUDY  
TIPS

1.5 HW page 31 #'s 3, 4, 5, 14, 16, 24-27

## INTRODUCTION TO WORD PROBLEMS

AT A MINIMUM

- ① Read 3x
- ② WRITE KEY INFORMATION (LABEL KI:)
- ③ LEAVE A LOT OF SPACE TO DO PROBLEM

THEN

- DEFINE VARIABLES AND INCLUDE UNITS
- WRITE EQUATION
- SOLVE
- CHECK - DOES ANSWER MAKE SENSE
- WRITE ANSWER IN WORDS

- ③ KI: \$85 SPEND ON MATERIALS  
WANT PROFIT OF \$90

X = COST OF EACH COLLAR (\$'s)

your variable  
is the question  
asked

NEED TO KNOW THE NUMBER OF COLLARS  
TO ANSWER PROBLEM.

- ④ KI: DATA 1 Paul ran .15 miles per minute for 40 min  
DATA 2 Paul and Jen ran .16 miles per minute  
for 50 min

X = distance Paul ran (miles)

TO ANSWER NEED TO KNOW TOTAL DISTANCE  
PAUL RAN.

- ⑤ KI: Rome -  $30^{\circ}\text{C}$  DALLAS -  $83^{\circ}\text{F}$

TO ANSWER, NEED TO KNOW FORMULA  
TO CONVER  $^{\circ}\text{C}$  to  $^{\circ}\text{F}$  AND  $^{\circ}\text{F}$  to  $^{\circ}\text{C}$ .

1.5 Hw (cont)

- (14) KI: Rack holds 22 DVD's and cost \$21  
How much will it cost to hold 127 DVD's

$X =$  DVD RACKS TOTAL COST (\$)

WORK -  $127/22 = 5\frac{17}{22} \rightarrow$  so need 6 RACKS  
\* \$21

ANSWER You need to spend \$126  
(in words) ON RACKS

\$126

- (16) KI: \$70 SAVED  
BOARD COSTS \$250  
PLAN TO SAVE \$10 per week

$X =$  # weeks needed to save

EQUATION  $\rightarrow 250 = 70 + 10X$   
 $X = 18$

ANSWER IT WILL TAKE 18 WEEKS TO SAVE \$250.