STUDY
TIPS

INTRODUCTION TO WORD PROBLEMS

AT A MINIMUM
1. Read 3X
2. WRITE KEY INFORMATION (LABEL KI:)
3. LEAVE ALOT 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: DAY1 Paul ran .15 miles per minute FOR 40 min
        DAY2 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°C   DALLAS — 83°F
   TO ANSWER, NEED TO KNOW Formula
   TO CONVER °C to °F AND °F to °C.

(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 — $127/22 = 5\,^{17}/22$ ⟶ SO NEED 6 RACKS
                                              * $21

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

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

X = # weeks needed to save

EQUATION ⟶ $250 = 70 + 10X$
                    $X = 18$

ANSWER   IT WILL TAKE 18 weeks to SAVE $250.