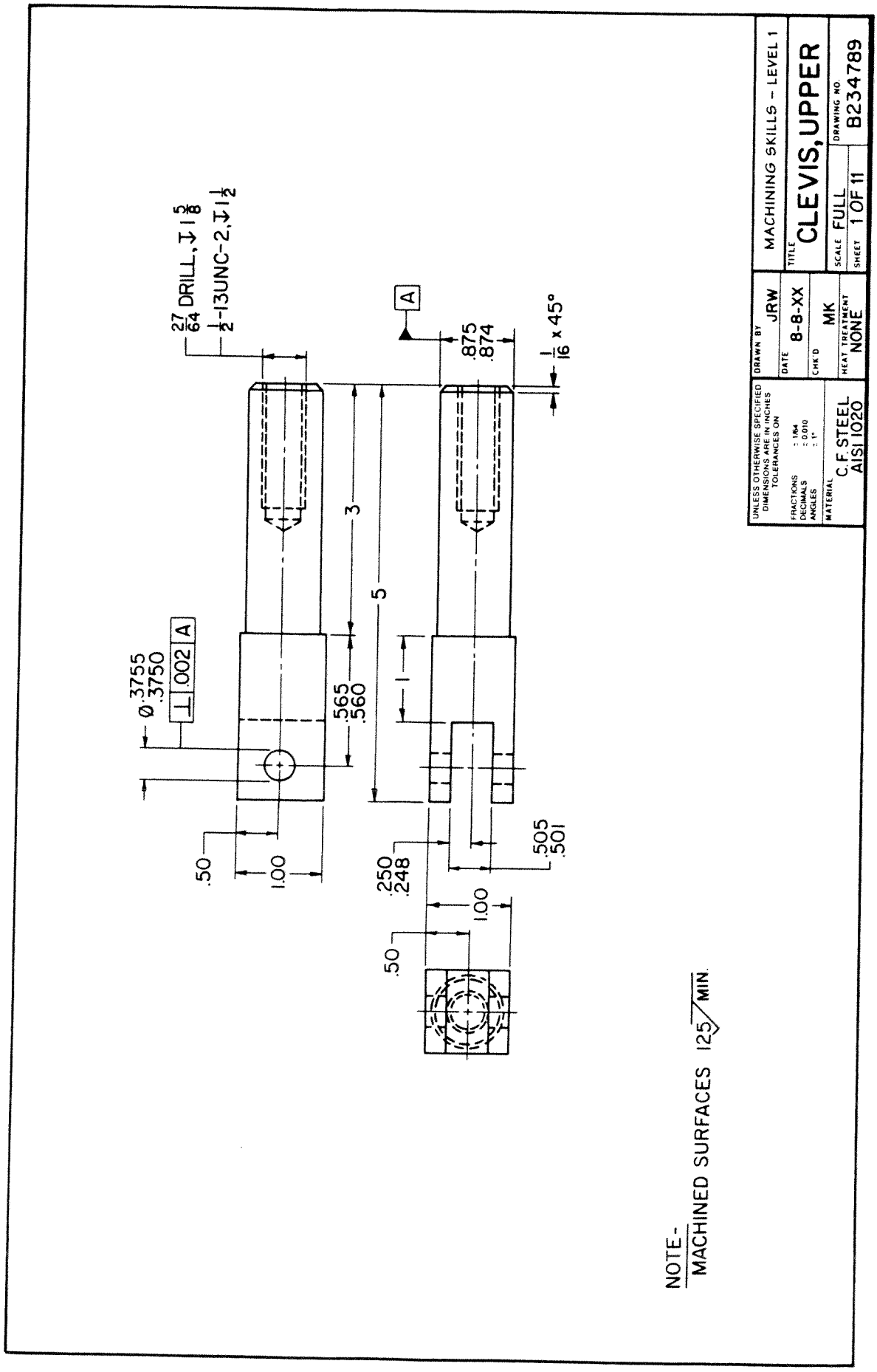
Name:_____

Machine Metals

Basic Print Reading


27/64 DRILL, ↧ 1 5/8
1/2-13UNC-2, ↧ 1 1/2
A
.875
.874
1/16 x 45°
Ø .3755
.3750
⊥ .002 A
.565
.560
3
5
1
.50
1.00
.250
.248
.505
.501
.50
1.00
NOTE-
MACHINED SURFACES 125 MIN.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
FRACTIONS ± 1/64
DECIMALS ± .010
ANGLES ± 1°
MATERIAL C.F. STEEL AISI 1020
DRAWN BY JRW
DATE 8-8-XX
CHK'D MK
HEAT TREATMENT NONE
MACHINING SKILLS – LEVEL 1
TITLE CLEVIS, UPPER
SCALE FULL
SHEET 1 OF 11
DRAWING NO. B234789

INFORMATION SHEET

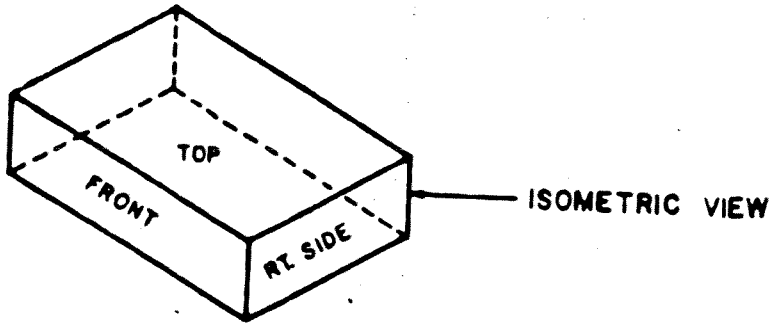
V. Orthographic projection drawings (Assignment Sheets #4 and #7)

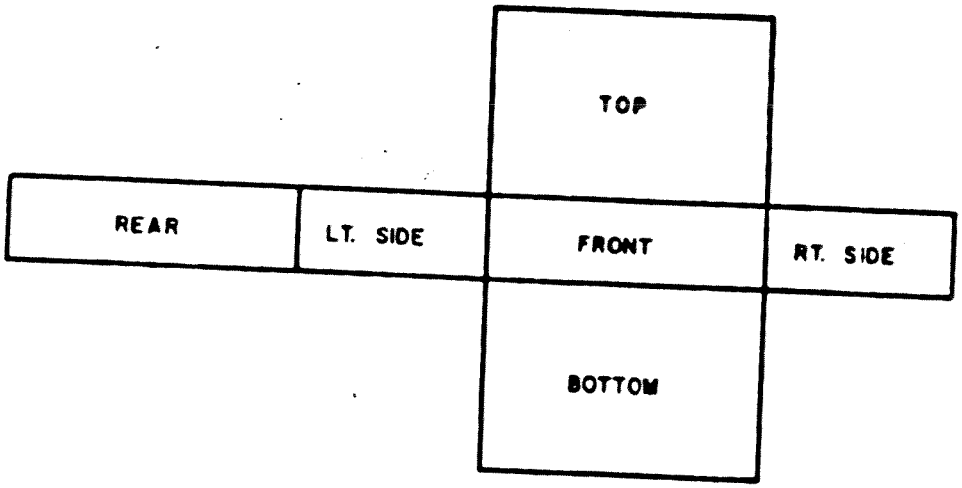
A. Are multiview drawings that show every feature of an object in size and shape

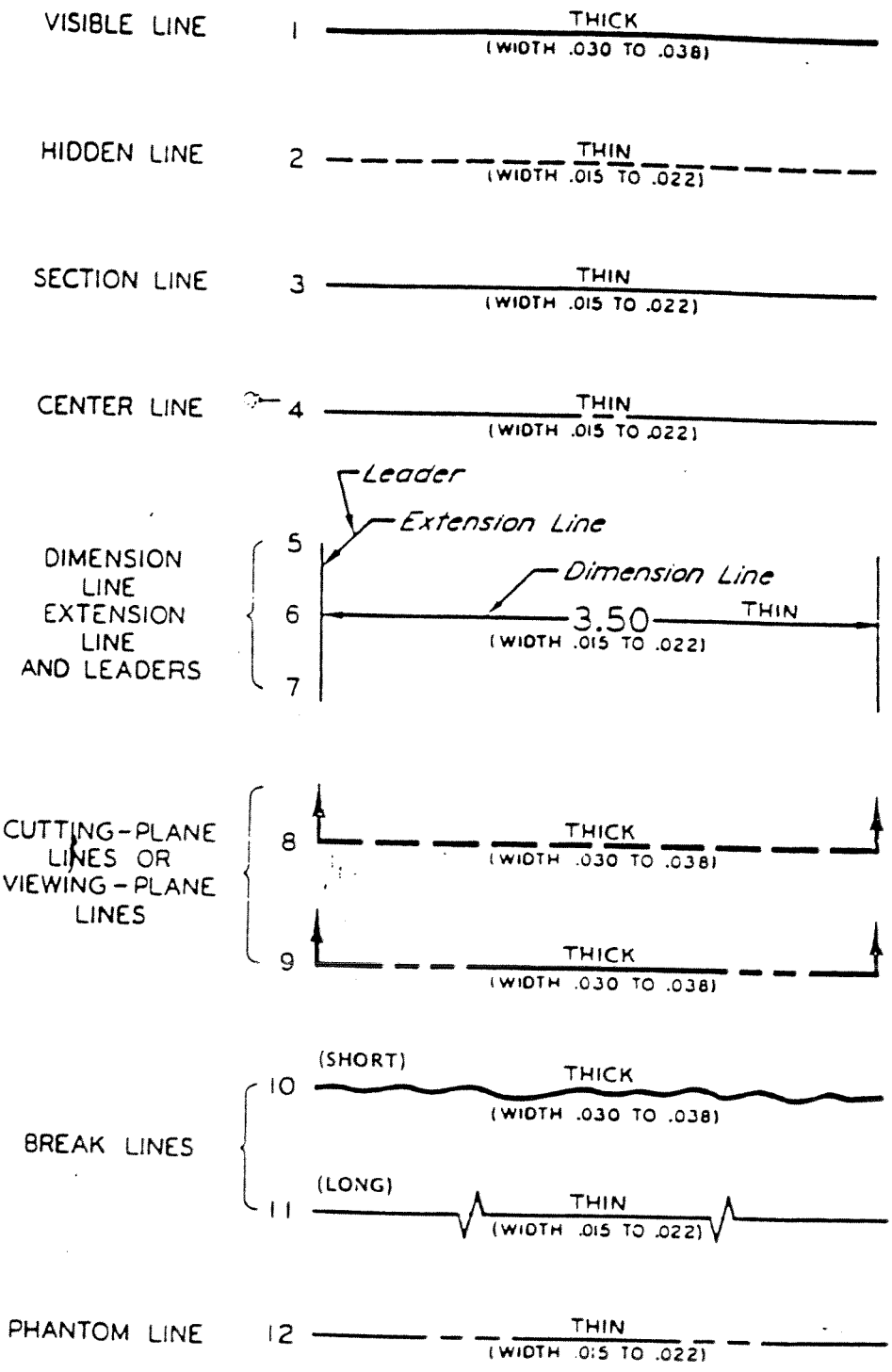
B. Help the user form a mental picture (isometric view) of the object because views are arranged in a systematic way

(NOTE: Two- and three-view drawings are usually all that are required to show size, shape, and most details of parts to be machined.)

Example: If you were to take a box and label the sides and then cut the box and unfold it you would have these six views







ANSI Y14.2. (Courtesy American Society of Mechanical Engineers)

Title Block

					B	WAS + .005 3/9/81	Joe	Bud
					A	WAS 1.25 · 5/1/81	Bill	Bud
			DO NOT SCALE DRAWING		SYM	REVISION Date	BY	APPD.
		HEAT TREATMENT NONE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS	DRAWN Jim	2/81	CURR INC. STILLWATER, OK		
		FINISH		CH' KD Joyce	2/81			
D-245	24572	NONE	(H)	APPD. Bud	2/81			
D-245	24572	QTY.REG.	.X ± .06 .XX ± .03 .XXX ± .010	CODE IDENT. NO. (F)		NAME SAMPLE (C)		
NEXT ASSY	USED ON	ONE EACH	ANGLES ± .0° 30'	12120				
APPLICATION		FILE NUMBER (B)	MATERIAL	SCALE	SIZE (E)	DRAWING NO. (A)	SHEET (D)	
		B-2C72	4140	FULL	D	B-24572	2-6	

A. Drawing Number
B. File Number
C. Name
D. Sheet
E. Scale
F. Code Identification Number
G. Signatures
H. Tolerances
I. Revisions

INFORMATION SHEET

Abbreviations used on blueprints

A. CI--Cast iron

B. CRS--Cold rolled steel

C. CS--Cast steel

D. CC--Center to center

E. C' Bore or CB--Counterbore

F. Csk--Countersink

G. Dia--Diameter

H. F or Fin--Finish

I. FAO--Finish all over

J. SQ--Square

K. FS--Full size

L. FSD--Full size detail

M. Hex--Hexagon

N. ID--Inside diameter

O. OD--Outside diameter

P. No--Number

Q. OC--On center

R. R or Rad--Radius

S. Req'd or Req--Required

T. SAE--Society of Automotive Engineers

U. AISI--American Iron and Steel Institute

V. USS--United States Standard

W. PD--Pitch diameter

X. Rd--Round

Y. SYM--Symmetrical

Z. TIR--Total indicator reading

AA. TYP--Typical

BB. Par--Parallel

CC. UNC--United National Coarse

DD. UNF--Unified National Fine

EE. UNS--Unified National Special

FF. UNEF--Unified National Extra Fine

GG. NTP--American Standard Taper Pipe