30.21 DRAWING AND DESIGN (449)



30.21.1 Drawing and Design Paper 1 (449/1)

- 1. (a) It will not add value to the drawing since it would produce the same view as the one initially used though in reverse directions. (1 x 1)
 - (b) The tape:
 - (i) tends to peel the top layer of the drawing paper
 - (ii is expensive

 $(2 \times \frac{1}{2})$

- 2. (a) Salary is payment made after a predetermined period/duration and is taxable. Wage is payment to short term worker usually daily or weekly (2 x 1)
 - (b) DESIGN: a process of converting an idea into pictorial or drawing form

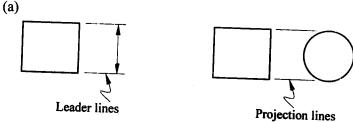
 (1×1)

Factors to consider -function

-aesthetics

 $(2 \times \frac{1}{2})$

3.



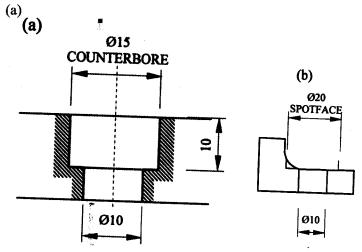
(b) DEFINITIONS

PLASTICITY: the ability of materials to deform and retain its new shape when load is removed.

ELASTICITY: the ability of materials to deform under load and return to its original shape, when load is removed.

(x 1)

4. CONVENTIONS

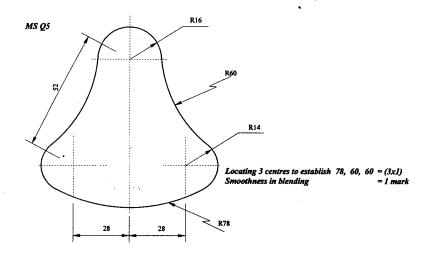


Counter bore $4 \times \frac{1}{2} = 2$

Spot face $4x \frac{1}{2}=2$

TOTAL

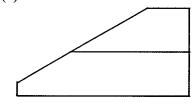
5.



6. (a)

3 x 1

(b)





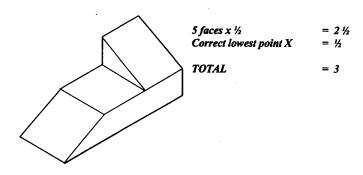
END ELEVATION
2 faces (2 x ½) = 1
Hatching = ½
PLAN

4 faces (4 x ½) = 2

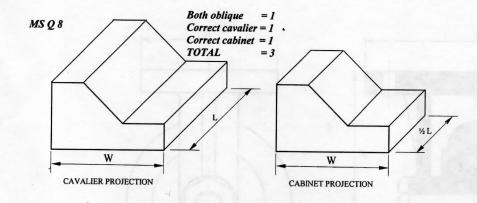
Hatching = ½

TOTAL = 4

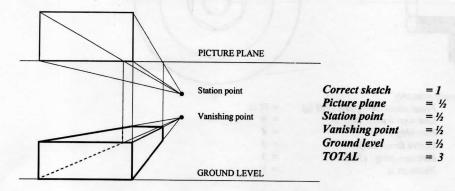
7.





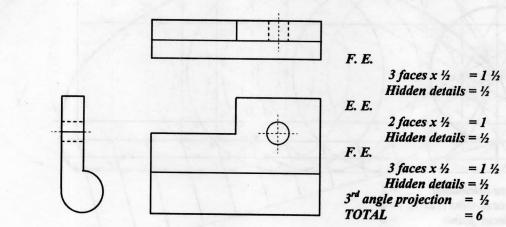


9.

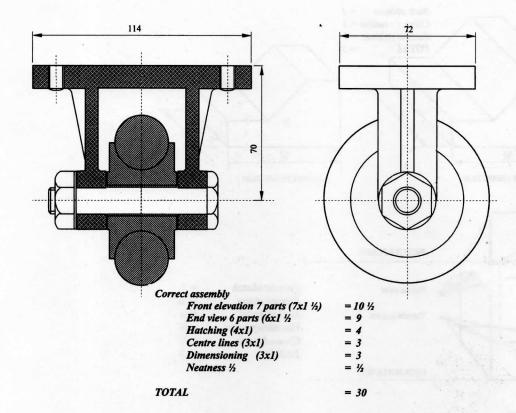


GROUND LEVEL
The sketch could vary but the concept should be correct

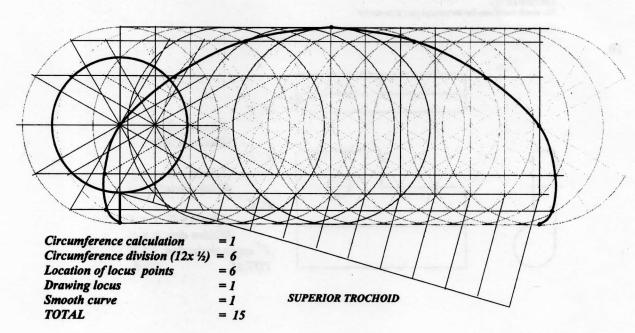
10.

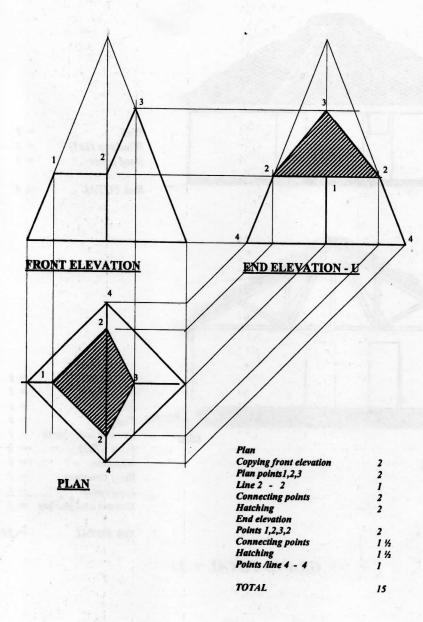


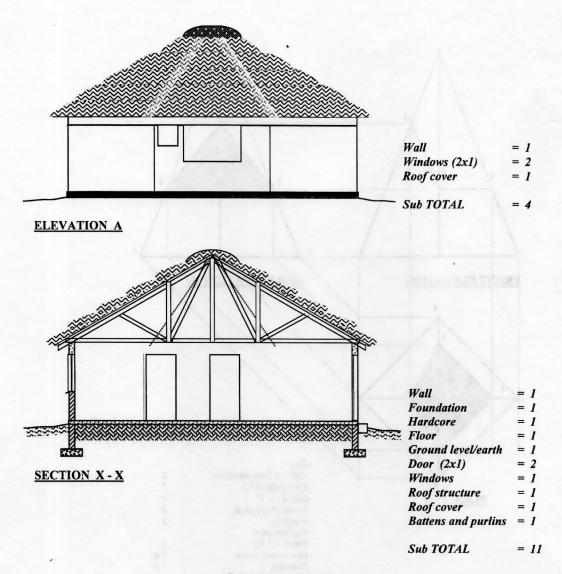
11.



12.







 $GRAND\ TOTAL = 15$