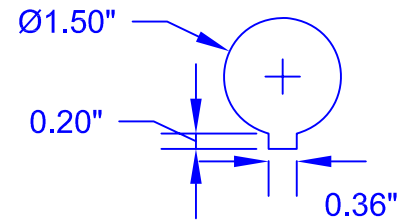


1/4" thick Cam detail



Hole and Keyway Detail

1. The volume of material is closest to:

- (A) 6.8978 cubic inches
- (B) 6.8789 cubic inches
- (C) 6.8798 cubic inches
- (D) 6.7898 cubic inches
- (E) 8.6798 cubic inches

2. What is the cost of steel for 1000 pieces of the cam with the assumptions shown?

- (A) \$ 813.48
- (B) \$ 831.84
- (C) \$ 813.84
- (D) \$ 814.34
- (E) \$ 813.04

3. The weight of one steel cam as shown is:

- (A) 1.950 lbs.
- (B) 1.950 grams
- (C) 1.950 kilograms
- (D) 1.590 lbs.
- (E) 1.905 lbs.

4. The total "TIME" you have spent creating this cam is: _____

5. The start Date/Time for your version of this drawing is: _____

6. Use the "SCALE" command to increase the Geneva cam by double. Use the center as the base point; use a scale factor of 2 units. The new volume of the cam is:



- (A) 55.3086 cubic inches
- (B) 50.5386 cubic inches
- (C) 55.0368 cubic inches
- (D) 55.0836 cubic inches
- (E) 55.0386 cubic inches

3D QUESTIONS:

SET-UP:

1. "EXTRUDE" the cam shape drawn in the 2D exercise by 0.25".
2. "SUBTRACT" the hole from the outer shape.
3. Assumptions for questions:
 Steel density: 0.283 lbs/cubic inch
 Steel price: \$0.38/lb.
 Waste Material: 10%

Draw the Geneva cam as shown here and answer the 5 questions. Score the questions with EKHO's self-scoring on-line quiz at www.ekhovideos.com.

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DWG TITLE: GENEVA CAM PRACTISE		
CLIENT: THE EKHO INSTITUTE	Rev. 0	
DWN BY: EKH	DATE: 2000/11/06	REV.# 0 DATE: 2000/11/06
CHKD BY: EKH	DATE: 2000/11/06	REV. BY: EKH
SCALE: 1:1 on Letter size		SHEET OF 1
DESIGNED BY: EKH		PROJECT: EH001106
		DISK: SERVER