

NAME: _____

DATE: _____

CLOCK#: _____

PLEASE ANSWER THE QUESTIONS BELOW. SHOW ALL WORK FOR CALCULATIONS.
THERE WILL BE NO CALCULATORS ALLOWED.

1) ADD .6200 TO 1.290

2) SUBTRACT -1.2 FROM .800

3) DIVIDE 31.25 BY .125

4) MULTIPLY .006 BY .600

5) ADD 2.50 TO -3.65

6) ADD .005 TO 2.350

7) MEASURE THE CUTTING DIAMETER OF 4 CUTTERS WITH CALIPERS AND
MICROMETERS TO THE NEAREST 3 PLACE DECIMAL.

CUTTER #1) FORM CUTTER. USE CALIPERS ANS. _____

CUTTER #2) DRILL. USE MICROMETERS ANS. _____

CUTTER #3) END MILL. USE MICROMETERS ANS. _____

CUTTER #4) CUTTER. USE CALIPERS ANS. _____

- 8) PUT AN "A" NEXT TO THE NUMBER THAT IS IN TENTHS OF A THOUSANDTH.
PUT A "B" NEXT TO THE NUMBER THAT IS IN HUNDREDTHS.
PUT A "C" NEXT TO THE NUMBER THAT IS THOUSANDTHS.
PUT A "D" NEXT TO THE NUMBER THAT IS TEN THOUSANDTHS.

.01
.001
.1
.0001

- 9) LIST ANY CNC EXPERIENCE YOU HAVE HAD IN THE LAST 24 MONTHS.

USING PRINT C-365590 ANSWER THE FOLLOWING QUESTIONS:

- 10) WHAT ARE THE DISTANCES BETWEEN "B" DATUM AND THE TRIGGER PIVOT HOLE?
- 11) ON THE PRINT, WHAT DATUMS ARE USED?
- 12) WHAT IS THE DISTANCE BETWEEN THE TWO SIDE PLATES?
- 14) WHAT IS THE MAX DIAMETER OF THE #6-40 HOLE ?
- 15) WHAT IS THE DISTANCE FROM THE #6-40 HOLE TO THE "A" DATUM?

16) WHEN YOU COMP. THE WIDTH OF AN ENDMILL, WHAT ARE YOU ADJUSTING?

A. DIAMETER

B. RADIUS

17) EXPLAIN TOOL LENGTH OFFSETS?

18) YOU HAVE CHANGED AN ENDMILL THREE TIMES AND HAVE ONLY RUN 30 PARTS. NORMALLY, THIS ENDMILL LASTS FOR 200 PARTS. WHAT WOULD YOU DO TO ELIMINATE THE BREAKAGE PROBLEM? LIST THE STEPS YOU WOULD TAKE AND IN WHAT ORDER?

19) PLEASE ANSWER THE FOLLOWING QUESTIONS BASED ON THE REAR
RETAINING PIN HOLE. REFER TO PRINT C. 363490.

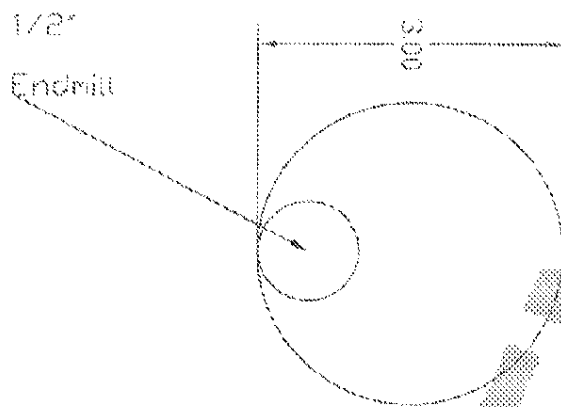
A. IF THE DIAMETER OF THE HOLE IS NEAR MAX. TOLERANCE, ARE YOU
ALLOWED MORE TOLERANCE IN POSITION? YES OR NO.

B. FROM THE REAR RETAINING PIN HOLE, WHAT IS THE ALLOWANCE
RADIALLY FROM TRUE CENTER?

C. WHAT DOES "M" MEAN ON THIS HOLE?

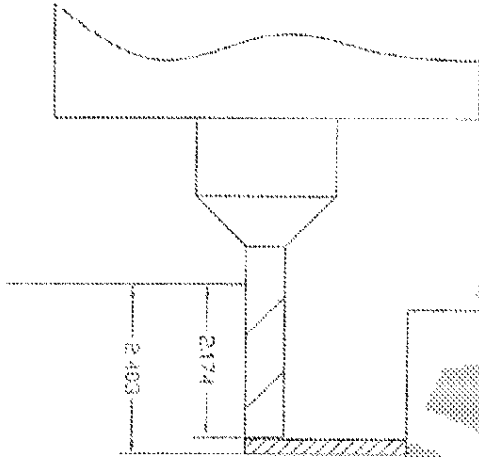
D. WHAT DOES THE PRINT ALLOW FOR THE POSITION OF THIS HOLE AT "M".

20.



If a 3.00 diameter circle is needed and it measures 2.990, how would you correct the problem using cutter compensation?

21.



After changing an endmill, the depth of the cut was measured at 2.174. If the depth of the cut needs to be 2.403 how would you adjust the depth, using offsets?

