SAMPLE PAPER. Good.

BURROUGHS LIMITED - DECIMAL CURRENCY PROGRAMME.

Basic Test No. 1.

TIME AND ACCURACY ARE OF EQUAL IMPORTANCE.

- Do all figuring in the space provided -

NAME ..... DATE .....

START TIME ..... FINISH TIME ..... = 15 MINUTES

SCORE = 75%.

QUESTION 1.

Add the following filling in the blank squares with the numbers you think are correct.

```
  4, 3 6 [5]
     2 5 6
  4, [9] 8 3
 [9], 7 5 4
        4 [8]
      8 3 7 +
  ------------
ANSWER [2]0, 2 4 3
```

✓ ~~100~~ 90.

QUESTION 2.

Subtract the following five figure numbers filling in the blank squares to arrive at the correct answer.

```
  5 [4], 9 [7] 7
[3] 7, [9] 8 [5] -
  ---------------
ANSWER  1 6, 9 9 2
```

✓ ~~100~~ 90.

QUESTION 3.

Divide the following.

589,407 Divided by 17.

ANSWER 34671 ✓ ~~100~~ 90.

QUESTION 4.

Multiply 5677888 by 78

ANSWER 442875264 ✓ ~~55~~ 50

510

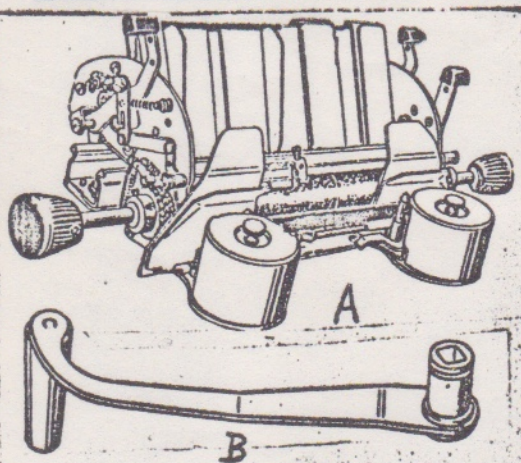
FORM BDC, 10

Good

BURROUGHS LTD. DECIMAL CONVERSION - TECHNICAL APTITUDE TESTS 1-7

NAME.....DATE.....TOTAL TIME 1-7.....

SCORE TESTS 1-4..... SCORE TESTS 5-7.....
TIME 1-4..... TIME 5-7.....



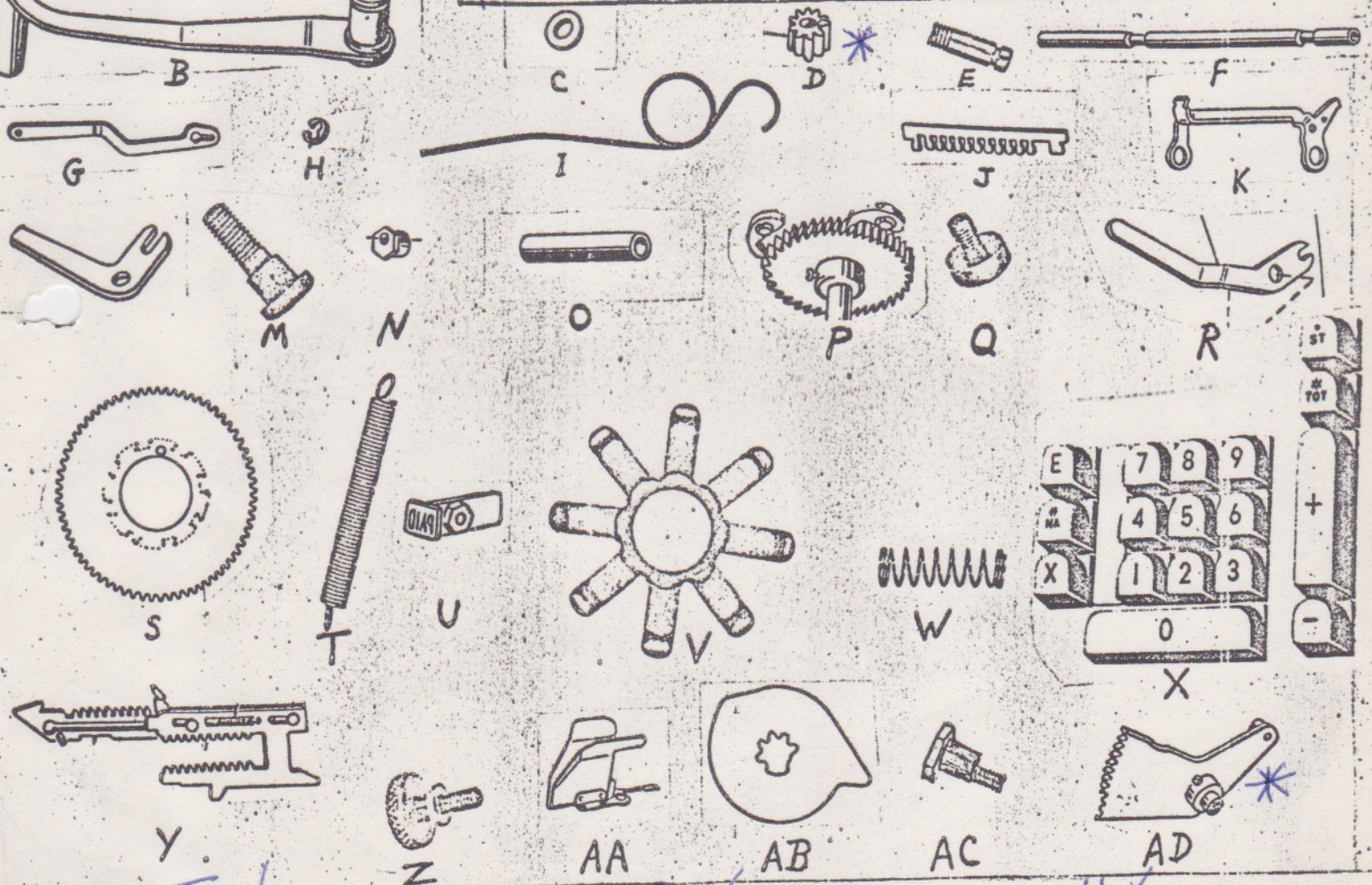
SECTION 1. TEST 1.

SELECT THE PART FITTING THE DESCRIPTION GIVEN, AND WRITE THE KEY LETTER OF THE PART IN THE SPACE PROVIDED OPPOSITE THE DESCRIPTION.

Start Time ..... Finish Time ..... = Min.

SCORE TEST 1 .....

Pass = 15 correct in 15 minutes



I	COMB	D	PINION GEAR	H	CLIP
M	SHOULDER SCREW	V	SPIDER SPRING	C	WASHER
T	TENSION SPRING	Y	RACK ASSEMBLY	Q	SCREW
O	SLEEVE	Z	THUMB SCREW	K	BAIL
AD	GEAR SEGMENT	U	TYPE PIECE	S	GEAR
L	BELLCRANK	I	TORSION SPRING	AB	CAM
AC	ECCENTRIC SHOULDER SCREW	A	CARRIAGE	B	HANDLE
W	COMPRESSION SPRING	G	LINK	F	SHAFT
P	RATCHET GEAR	N	ECCENTRIC COLLAR	AD	CHUTE
R	OFFSET LEVER	E	SPRING ANCHOR SCREW	X	KEYBOARD

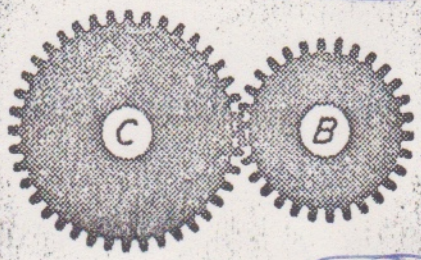
* these are

Section One
Test II

Score _____

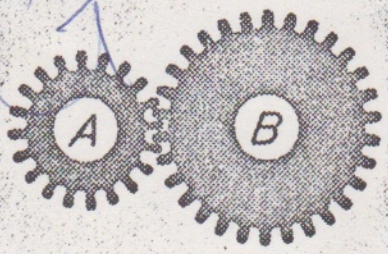
Underline all correct answers for each question.

1. When gear C drives gear B, the shaft speed of gear B is (faster than, slower than, the same as) the shaft speed of gear C.



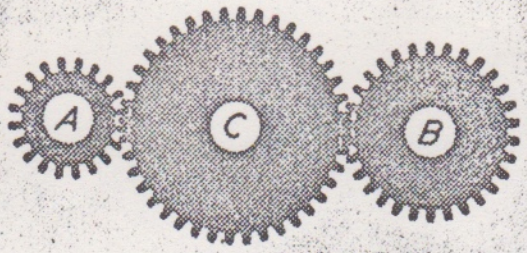
F

2. When gear A drives gear B, the shaft speed of gear A is (faster than, slower than, the same as) the shaft speed of gear B.



F

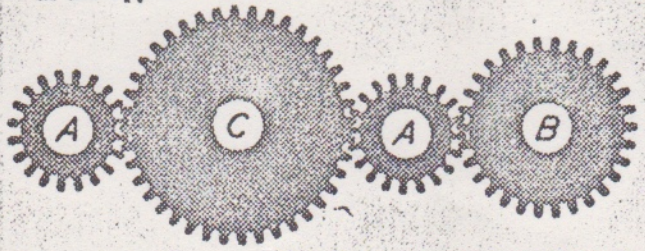
3. When gears B and C are driven by gear A, the shaft speed of gear A is (faster than, slower than, the same as) gear B.



F

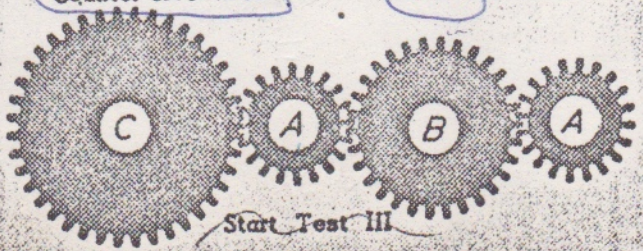
4. The below train of gears is driven by gear C.

Both A gears are turning: (In the same direction / In the opposite direction) (at) (the same speed / different speeds)



5. The below train of gears is being driven by gear C which is turning in a clockwise direction.

Gears A are turning: (Clockwise / Counter-clockwise) (at) the same shaft speed as gear B. (faster / slower) shaft speed than gear B.

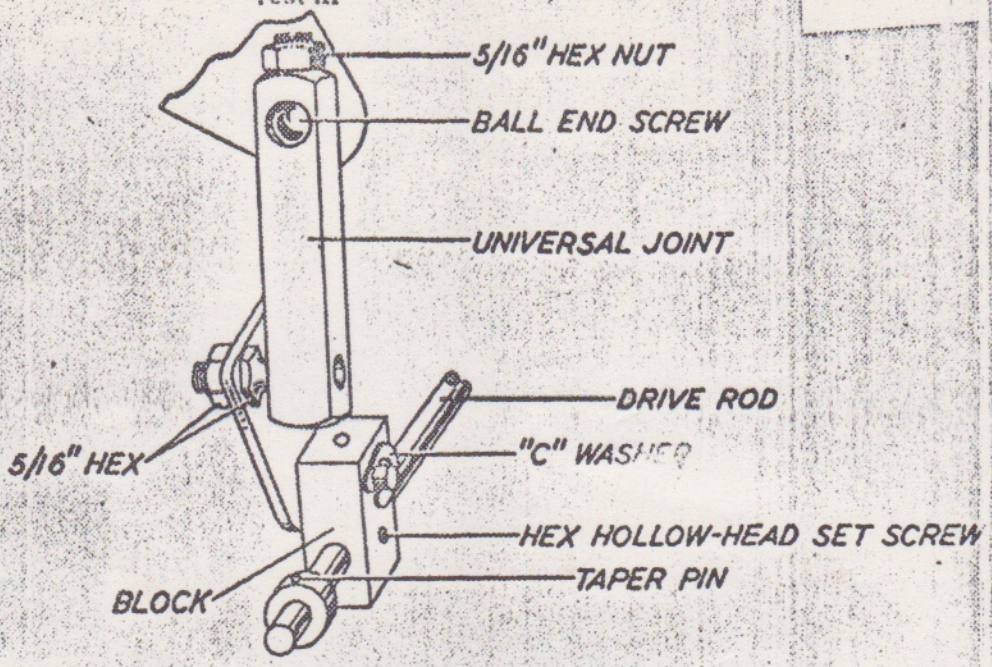


Start Test III

Good.

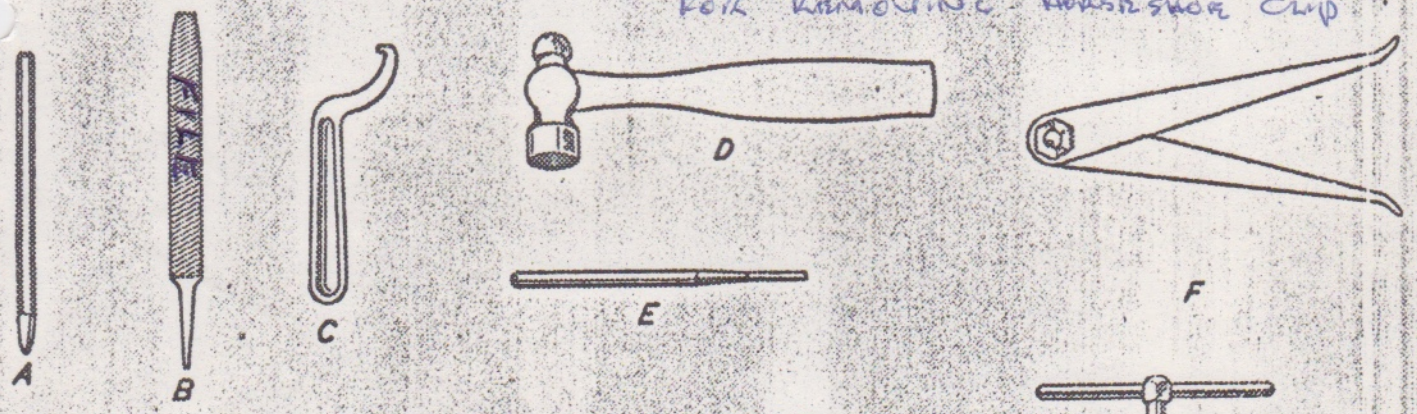
Section One
Test III

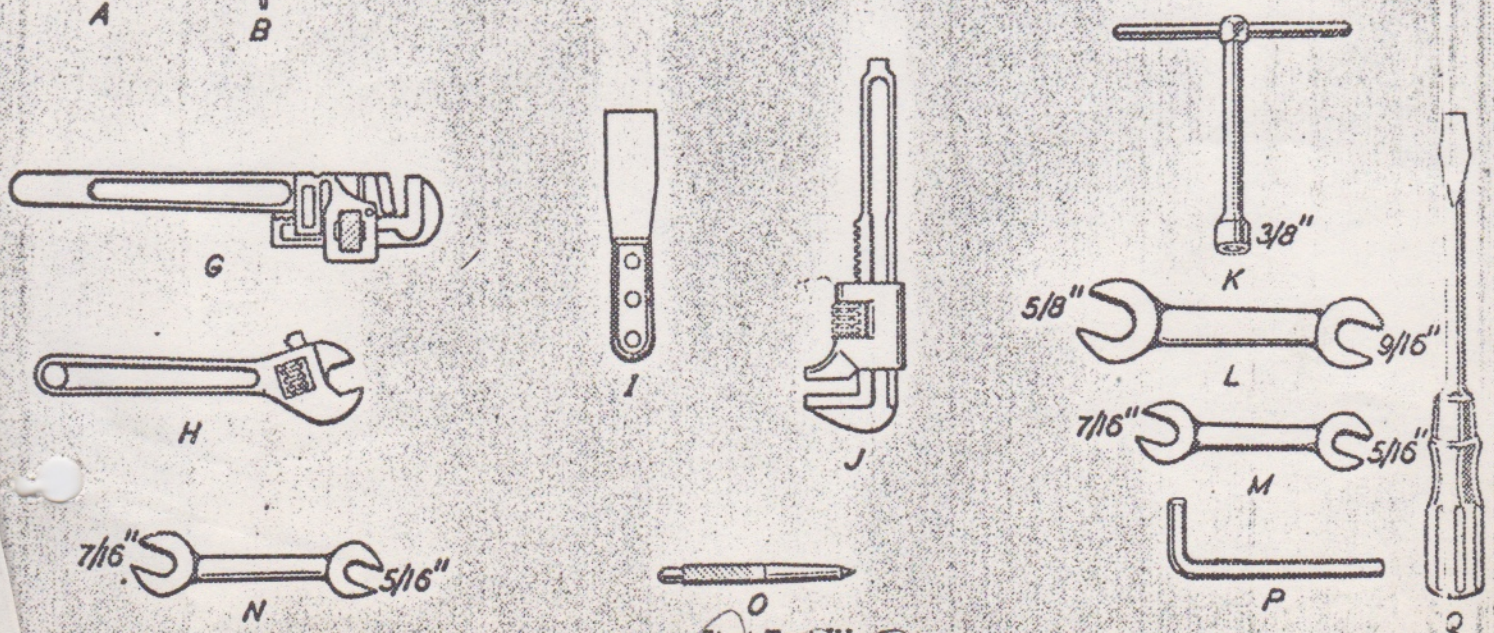
Score _____



If you were instructed to take this assembly completely apart, examine the parts and reassemble, list the key letters of the tools you should use.

Q ✓ N ✓ P ✓ D ✓
M ✓ E ✓ I OR C OR Q ACCEPTABLE FOR REMOVING HORSESHOE CLIP



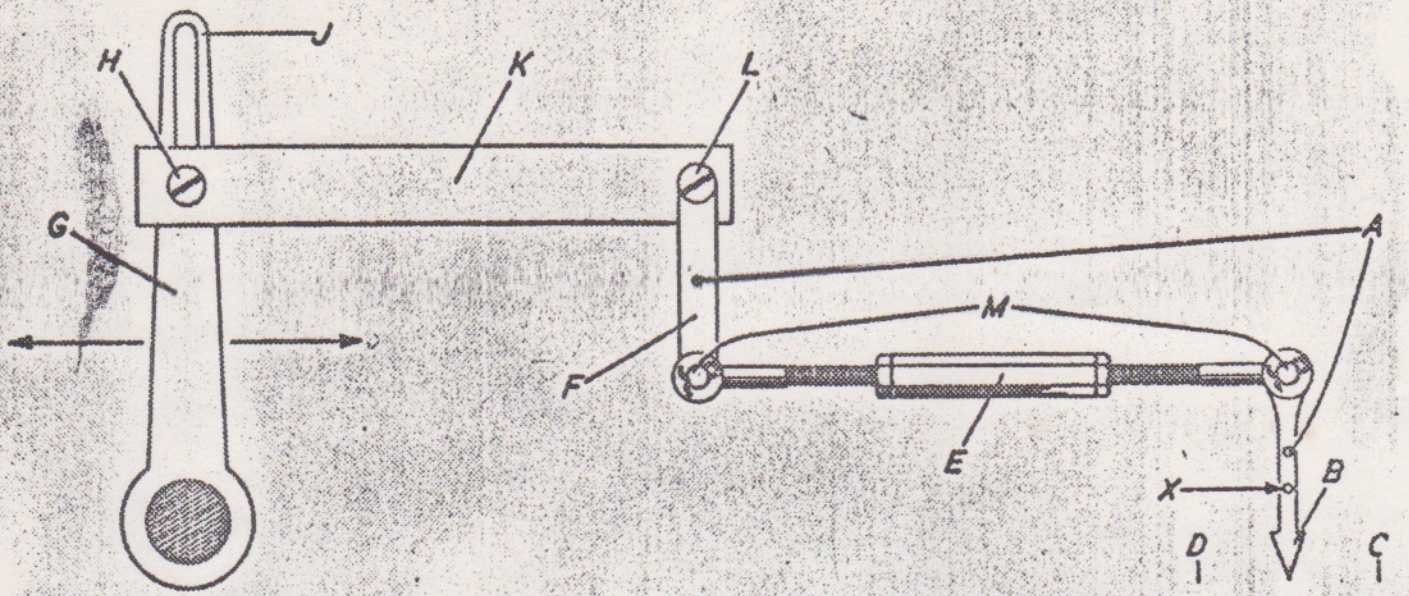


Start Test IV

Section One
Test IV

Score_____

Good



In the above illustration, arm G is connected to a shaft which drives it back and forth in the direction indicated by the arrows. It is connected to a pointer B by means of bar K, link F and adjustable link assembly E. The points indicated by A are pivot points for pointer B and link F. Screws L and H are shoulder screws and allow free movement of bar K.

Visualize the movement of the parts connected to arm G as this arm is driven by its shaft, proceed to answer the questions by underlining the correct statement.

1. When arm G moves to the right, the pointer B will

a. remain on center b. move in the direction of Line C c. move in the direction of Line D

2. When Coupler E is adjusted, the distance between connecting points M can be increased or decreased. To accomplish this adjustment principle, the threads on the adjustable link must be

a. both right-hand threads b. both left-hand threads c. one right & one left-hand thread

3. If pivot screw H were moved toward point J on arm G, and the movement of arm G remained the same would the movement of the pointer B

a. remain the same b. increase c. decrease

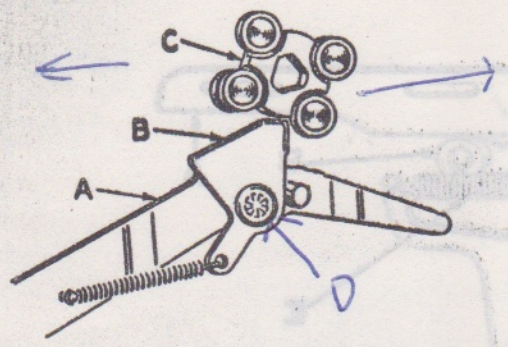
4. If adjustable link assembly E were shortened, the stroke of pointer B would

a. reduce
b. increase
c. remain the same
d. remain the same but shift location between lines D & C

5. If the pivot point of pointer B were changed to location X, the stroke of this pointer would

a. be greater b. be less c. remain the same

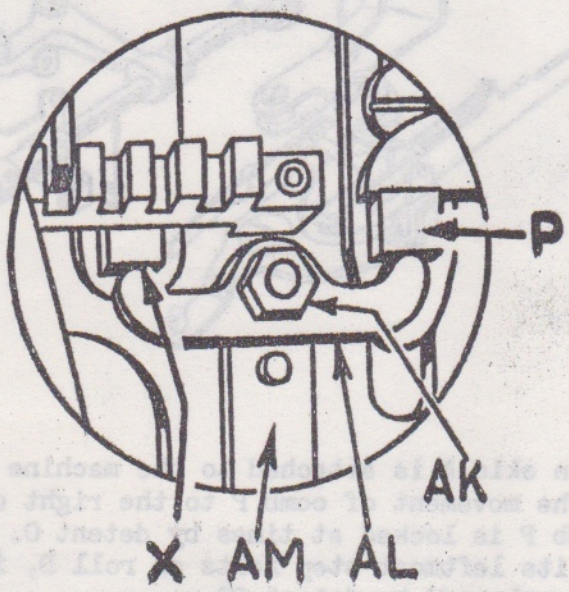
TEST QUESTIONS (CONT'D.)



21. Control roll assembly C is attached to a machine carriage which moves laterally right and left. Pass-by pawl B swings on arm A. Pawl B will lower arm A when control roll assembly C is moving to:

AND PIVOTS AT D

- [x] Left
- [ ] Right
- [ ] Either direction
- [ ] Neither direction

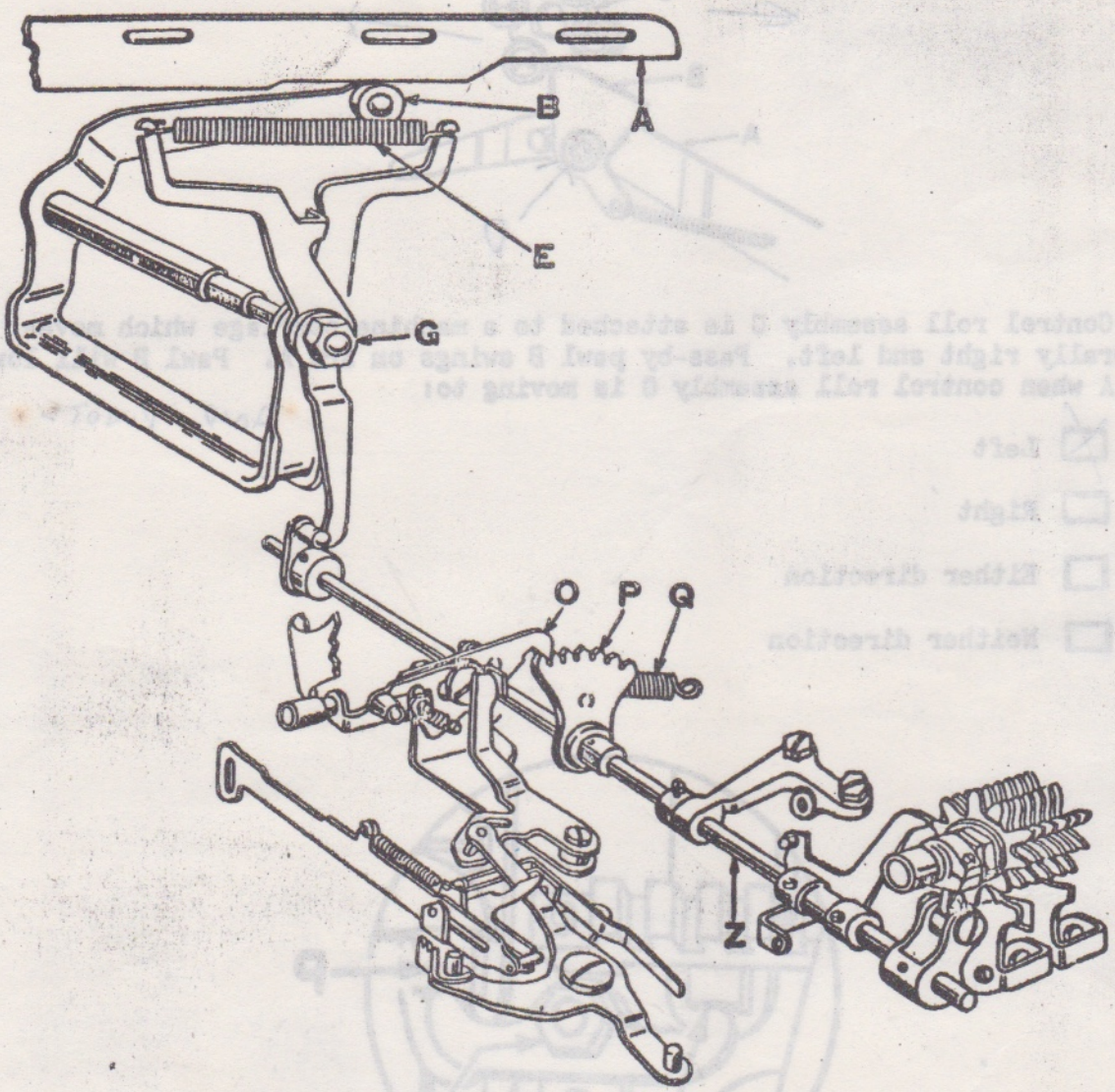


22. The center of rocker AL is fastened to slide AM and pivots at point AK. At all times slide AM holds rocker AL against studs X and P. Studs X and P move downward independently or together. When either stud is independently lowered a fixed distance, slide AM will be lowered 1/8". If both studs are simultaneously lowered the same fixed distance, how far will slide AM be moved?

- [ ] 1/8"
- [x] A greater distance
- [ ] A lesser distance

 Name_____

TEST QUESTIONS (CONT'D.)

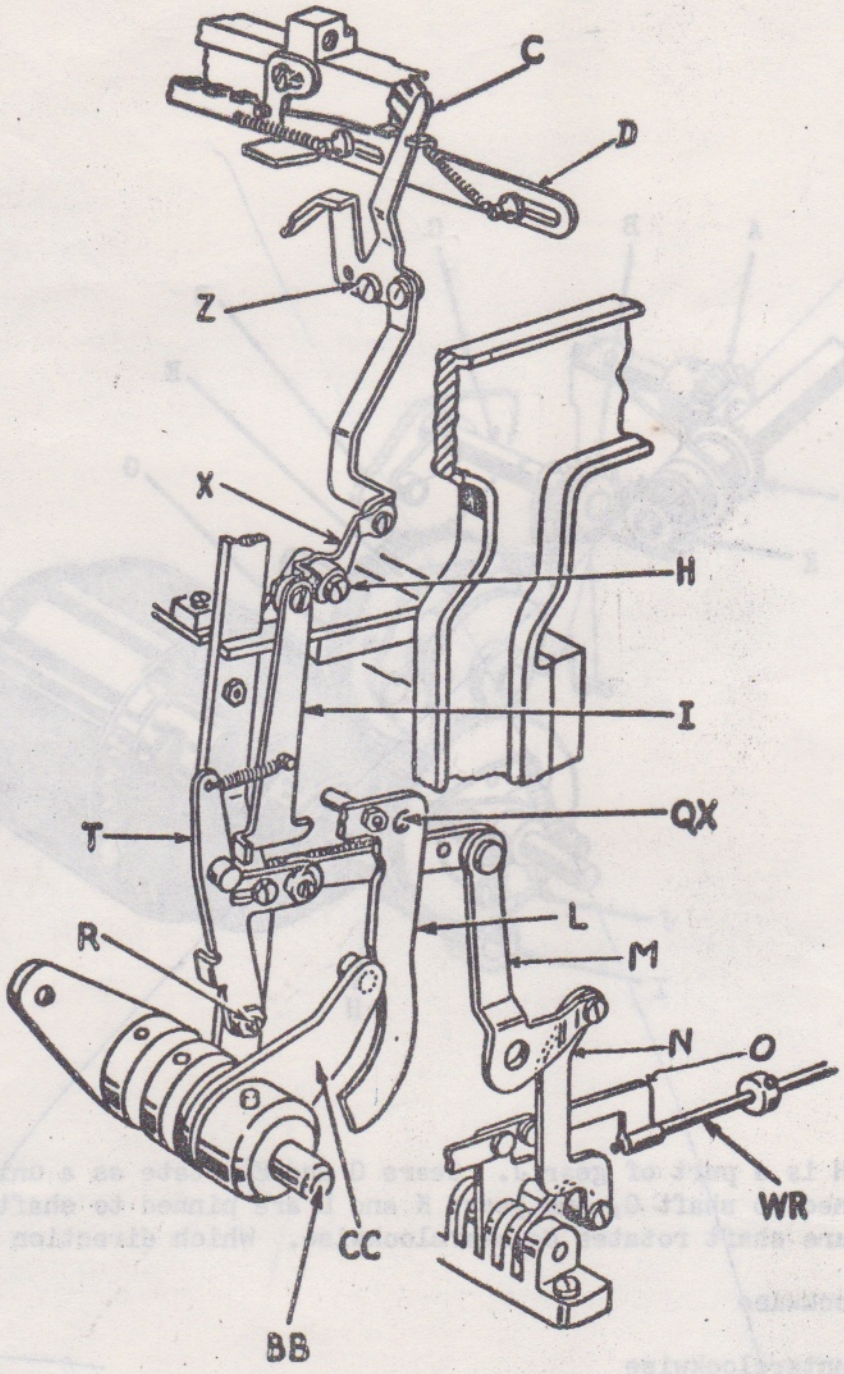


23. Register selection skid A is attached to the machine carriage. Comb P is pinned to shaft Z. The movement of comb P to the right or left is powered by springs E and Q. Comb P is locked at times by detent O. If skid A is moved to the right so that its leftmost step rests on roll B, in which direction will comb P rock when released by detent O?

☐ Right

☒ Left

TEST QUESTIONS (CONT'D.)



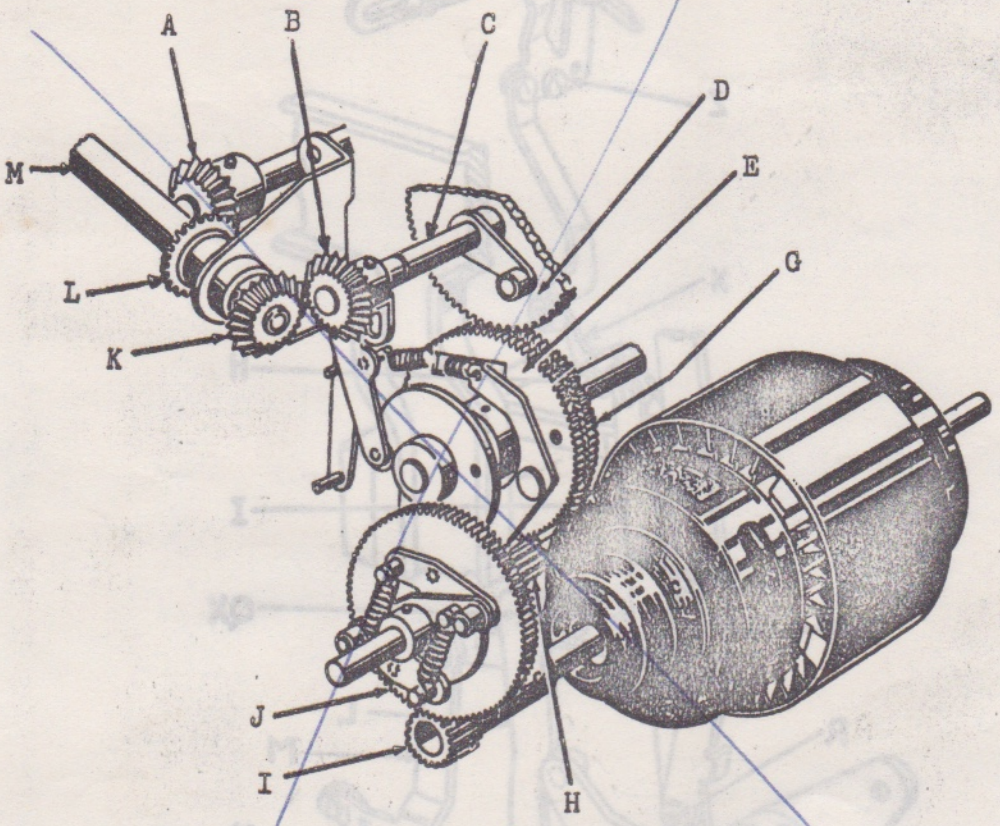
24. Bell crank C pivots at screw Z, bell crank X at screw H, lever T at screw R, lever L at QX, and arm CC on shaft BB. When a subtotal key is depressed, wire WR is pulled to the right which in turn through parts M, N, and O pulls lever T to swing arm I to the right. If the machine operation rocks arm CC clockwise, in which direction will slide D be moved?

☐ Right

☒ Left

 Name_____

TEST QUESTIONS (CONT'D.)



25. Gear H is a part of gear J. Gears G and E rotate as a unit. Gears D and B are pinned to shaft C, and gears K and L are pinned to shaft M. Gear I on the armature shaft rotates counterclockwise. Which direction does gear A rotate?

- ☐ Clockwise
- ☐ Counterclockwise

Pinion gear test as an alternative