3.10 Letter-Pair Analogies: 1-hour Pack

about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Each question gives a pair of letters and shows how it changes into a second pair. Work out the rule connecting the two letters, then apply exactly the same rule to the third pair to find the missing letters. Choose the one option (A to E) that correctly completes the analogy. No letter ever needs to move past Z. Study the worked example above before you begin.

Worked example. AB is to CD as EF is to ? **Answer: GH.** Each letter in the first pair moves forward 2 places in the alphabet to make the second pair (A+2=C, B+2=D). Applying the same rule to EF: E+2=G and F+2=H, so the missing pair is GH.

1 NP is to MK as JB is to ?

- ☐ A) JB
- ☐ B) QY
- ☐ C) QX
- ☐ D) QZ
- ☐ E) YQ

---

2 DC is to FE as HG is to ?

- ☐ A) JI
- ☐ B) IH
- ☐ C) KJ
- ☐ D) IJ
- ☐ E) JG

---

3 AX is to CZ as XC is to ?

- ☐ A) ZE
- ☐ B) YE
- ☐ C) ZD
- ☐ D) ZF
- ☐ E) EZ

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4 SV is to TX as BJ is to ?

- A) LC
- B) CL
- C) DK
- D) DL
- E) CK

---

5 NX is to RS as DJ is to ?

- A) IE
- B) EH
- C) HE
- D) DJ
- E) HD

---

6 WJ is to SL as LH is to ?

- A) HK
- B) JH
- C) ND
- D) HJ
- E) GJ

---

7 NH is to RL as TM is to ?

- A) QX
- B) TM
- C) XP
- D) WQ
- E) XQ

---

8 YE is to ZG as PX is to ?

- A) QZ
- B) RY
- C) RZ
- D) ZQ
- E) PX

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9 BE is to AG as IR is to ?

- ☐ A) TH
- ☐ B) IR
- ☐ C) HS
- ☐ D) HU
- ☐ E) HT

---

10 BJ is to DH as EK is to ?

- ☐ A) GM
- ☐ B) GI
- ☐ C) CI
- ☐ D) CM
- ☐ E) GK

---

11 VC is to ZG as NJ is to ?

- ☐ A) RM
- ☐ B) RO
- ☐ C) QN
- ☐ D) RN
- ☐ E) NR

---

12 GL is to JE as SM is to ?

- ☐ A) KR
- ☐ B) JQ
- ☐ C) KQ
- ☐ D) SM
- ☐ E) KP

---

13 LQ is to QS as EQ is to ?

- ☐ A) EQ
- ☐ B) KS
- ☐ C) JS
- ☐ D) JT
- ☐ E) GV

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14 KE is to IC as HF is to ?

- ☐ A) GD
- ☐ B) FD
- ☐ C) FE
- ☐ D) FC
- ☐ E) DF

---

15 EK is to HN as AM is to ?

- ☐ A) AM
- ☐ B) DQ
- ☐ C) PD
- ☐ D) DO
- ☐ E) DP

---

16 LS is to KR as WE is to ?

- ☐ A) DV
- ☐ B) VC
- ☐ C) VE
- ☐ D) VD
- ☐ E) WD

---

17 SX is to VZ as FX is to ?

- ☐ A) IZ
- ☐ B) FX
- ☐ C) IY
- ☐ D) JZ
- ☐ E) ZI

---

18 FI is to IL as MP is to ?

- ☐ A) OR
- ☐ B) QT
- ☐ C) PS
- ☐ D) PR
- ☐ E) OS

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19 ST is to XO as QX is to ?

- [ ] A) US
- [ ] B) QX
- [ ] C) WS
- [ ] D) VS
- [ ] E) VR

---

20 RG is to QF as XW is to ?

- [ ] A) XV
- [ ] B) VW
- [ ] C) WV
- [ ] D) WW
- [ ] E) WU

---

21 YU is to UQ as HM is to ?

- [ ] A) HM
- [ ] B) DI
- [ ] C) CI
- [ ] D) DJ
- [ ] E) EI

---

22 LC is to EN as DB is to ?

- [ ] A) DF
- [ ] B) FD
- [ ] C) DB
- [ ] D) DE
- [ ] E) DG

---

23 XE is to ZG as ND is to ?

- [ ] A) PF
- [ ] B) QF
- [ ] C) PG
- [ ] D) OF
- [ ] E) ND

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24 GE is to JH as KF is to ?

- [ ] A) IN
- [ ] B) KF
- [ ] C) NI
- [ ] D) MI
- [ ] E) OI

---

25 GV is to TE as AO is to ?

- [ ] A) AO
- [ ] B) ZL
- [ ] C) ZK
- [ ] D) YL
- [ ] E) ZM

---

26 LE is to EL as OE is to ?

- [ ] A) FO
- [ ] B) OE
- [ ] C) EP
- [ ] D) EO
- [ ] E) EN

---

27 VF is to ZJ as LN is to ?

- [ ] A) PS
- [ ] B) PR
- [ ] C) RP
- [ ] D) LN
- [ ] E) OR

---

28 TK is to WN as IP is to ?

- [ ] A) LS
- [ ] B) SL
- [ ] C) MS
- [ ] D) LT
- [ ] E) LR

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29 YW is to VW as OR is to ?

- [ ] A) MR
- [ ] B) LR
- [ ] C) LQ
- [ ] D) LS
- [ ] E) KR

---

30 WK is to DP as TX is to ?

- [ ] A) GB
- [ ] B) CG
- [ ] C) GC
- [ ] D) HC
- [ ] E) FC

---

31 TR is to WU as KQ is to ?

- [ ] A) OT
- [ ] B) NS
- [ ] C) KQ
- [ ] D) MT
- [ ] E) NT

---

32 CP is to EU as VN is to ?

- [ ] A) SX
- [ ] B) WS
- [ ] C) XS
- [ ] D) VN
- [ ] E) YS

---

33 OF is to RH as CE is to ?

- [ ] A) EH
- [ ] B) FH
- [ ] C) FF
- [ ] D) FG
- [ ] E) GG

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34 WQ is to TN as ZH is to ?

- ☐ A) EW
- ☐ B) ZH
- ☐ C) WD
- ☐ D) XE
- ☐ E) WE

---

35 KW is to NZ as PJ is to ?

- ☐ A) RM
- ☐ B) SM
- ☐ C) SL
- ☐ D) MS
- ☐ E) PJ

---

36 PF is to GQ as UO is to ?

- ☐ A) UO
- ☐ B) VP
- ☐ C) PV
- ☐ D) OV
- ☐ E) PW

---

37 DE is to FG as JK is to ?

- ☐ A) KL
- ☐ B) LM
- ☐ C) LN
- ☐ D) MN
- ☐ E) JL

---

38 FV is to DS as CY is to ?

- ☐ A) AV
- ☐ B) VA
- ☐ C) CY
- ☐ D) AW
- ☐ E) BV

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39 MS is to NT as WA is to ?

- A) YB
- B) BX
- C) WB
- D) XC
- E) XB

---

40 XO is to OX as NO is to ?

- A) NO
- B) PN
- C) ON
- D) NN
- E) OO

---

41 SG is to TH as RT is to ?

- A) SV
- B) SU
- C) US
- D) RT
- E) TU

---

42 TQ is to YV as HD is to ?

- A) MI
- B) HD
- C) MH
- D) NI
- E) MJ

---

43 TD is to QA as TY is to ?

- A) QW
- B) RV
- C) PV
- D) TY
- E) QV

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44 GI is to TR as OX is to ?

- A) MC
- B) LC
- C) LD
- D) CL
- E) OX

---

45 XO is to CL as JH is to ?

- A) PS
- B) SQ
- C) RS
- D) QR
- E) QS

---

46 GI is to LP as MP is to ?

- A) RW
- B) RU
- C) TW
- D) TU
- E) RV

---

47 SP is to TQ as WY is to ?

- A) WY
- B) XY
- C) YZ
- D) XZ
- E) WZ

---

48 PA is to UE as FN is to ?

- A) LR
- B) RK
- C) KR
- D) KQ
- E) FN

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49 KD is to HH as TP is to ?

- A) TP
- B) QT
- C) RT
- D) TQ
- E) QU

---

50 NE is to OF as FY is to ?

- A) GZ
- B) HZ
- C) FZ
- D) FY
- E) GY

---

51 CI is to XR as YS is to ?

- A) BH
- B) HB
- C) BI
- D) AH
- E) YS

---

52 GF is to EH as EF is to ?

- A) CH
- B) CI
- C) EF
- D) HC
- E) BH

---

53 NU is to RY as BQ is to ?

- A) GU
- B) FU
- C) FT
- D) BQ
- E) UF

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54 DB is to GF as MA is to ?

- A) MA
- B) PF
- C) PE
- D) PD
- E) OE

---

55 BC is to HI as OP is to ?

- A) TU
- B) UV
- C) VW
- D) UW
- E) TV

---

56 JC is to OH as TA is to ?

- A) YF
- B) YE
- C) XF
- D) FY
- E) YG

---

57 CG is to GK as VU is to ?

- A) YZ
- B) VU
- C) ZY
- D) ZZ
- E) YY

---

58 QY is to NT as MZ is to ?

- A) KU
- B) IU
- C) UJ
- D) JV
- E) JU

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59 NJ is to KG as PE is to ?

- [ ] A) NB
- [ ] B) BM
- [ ] C) MA
- [ ] D) MB
- [ ] E) LB

---

60 NX is to OY as AK is to ?

- [ ] A) AL
- [ ] B) LB
- [ ] C) BL
- [ ] D) AK
- [ ] E) CL

---

61 IO is to KQ as AG is to ?

- [ ] A) CJ
- [ ] B) CI
- [ ] C) IC
- [ ] D) CH
- [ ] E) AG

---

62 IW is to MR as RG is to ?

- [ ] A) VC
- [ ] B) UB
- [ ] C) WB
- [ ] D) VB
- [ ] E) VA

---

63 BD is to EC as FI is to ?

- [ ] A) GJ
- [ ] B) IF
- [ ] C) JG
- [ ] D) KH
- [ ] E) JF

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64 ON is to ML as WJ is to ?

- [ ] A) WJ
- [ ] B) UH
- [ ] C) VH
- [ ] D) HU
- [ ] E) UG

---

65 VC is to CV as ZU is to ?

- [ ] A) ZU
- [ ] B) VZ
- [ ] C) TZ
- [ ] D) UZ
- [ ] E) UY

---

66 TI is to RI as LD is to ?

- [ ] A) JD
- [ ] B) JC
- [ ] C) JE
- [ ] D) LB
- [ ] E) KD

---

67 UX is to RU as JU is to ?

- [ ] A) RG
- [ ] B) FR
- [ ] C) GR
- [ ] D) HR
- [ ] E) GQ

---

68 BJ is to GE as HU is to ?

- [ ] A) PM
- [ ] B) HU
- [ ] C) NP
- [ ] D) MP
- [ ] E) LP

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69 RD is to PB as XF is to ?

- [ ] A) XF
- [ ] B) VD
- [ ] C) VE
- [ ] D) UD
- [ ] E) DV

---

70 DR is to FT as LH is to ?

- [ ] A) MJ
- [ ] B) NI
- [ ] C) NJ
- [ ] D) JN
- [ ] E) OJ

---

71 WJ is to GT as ZD is to ?

- [ ] A) AW
- [ ] B) BW
- [ ] C) ZD
- [ ] D) AV
- [ ] E) WA

---

72 JL is to MQ as NQ is to ?

- [ ] A) QT
- [ ] B) SV
- [ ] C) ST
- [ ] D) QV
- [ ] E) QU

---

73 SQ is to QS as AC is to ?

- [ ] A) BA
- [ ] B) DA
- [ ] C) CA
- [ ] D) CB
- [ ] E) AC

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74 TC is to VE as TV is to ?

- A) XV
- B) VX
- C) TV
- D) VY
- E) UX

---

75 PK is to UM as IB is to ?

- A) IB
- B) DN
- C) NC
- D) ND
- E) MD

---

76 NP is to OQ as LE is to ?

- A) MF
- B) LE
- C) ME
- D) FM
- E) MG

---

77 UB is to BU as EQ is to ?

- A) EQ
- B) PE
- C) QD
- D) QE
- E) QF

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Mark scheme · 3.10 Letter-Pair Analogies: 1-hour Pack

Question 1

B) QY - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching NP to MK; so JB becomes QY **B1**

Answer: B) QY

Question 2

A) JI - both letters shift forward 2 places, keeping the descending order (D+2=F, C+2=E), so H+2=J and G+2=I **B1**

Answer: A) JI

Question 3

A) ZE - both letters move forward 2 places, matching AX to CZ; so XC becomes ZE **B1**

Answer: A) ZE

Question 4

B) CL - the first letter moves forward 1 place and the second letter moves forward 2 places, matching SV to TX; so BJ becomes CL **B1**

Answer: B) CL

Question 5

C) HE - the first letter moves forward 4 places and the second letter moves back 5 places, matching NX to RS; so DJ becomes HE **B1**

Answer: C) HE

Question 6

D) HJ - the first letter moves back 4 places and the second letter moves forward 2 places, matching WJ to SL; so LH becomes HJ **B1**

Answer: D) HJ

Question 7

E) XQ - both letters move forward 4 places, matching NH to RL; so TM becomes XQ **B1**

Answer: E) XQ

Question 8

A) QZ - the first letter moves forward 1 place and the second letter moves forward 2 places, matching YE to ZG; so PX becomes QZ **B1**

Answer: A) QZ

Question 9

E) HT - the first letter moves back 1 place and the second letter moves forward 2 places, matching BE to AG; so IR becomes HT **B1**

Answer: E) HT

Question 10

B) GI - the first letter moves forward 2 places and the second letter moves back 2 places (B+2=D, J-2=H) **B1**

Answer: B) GI

Question 11

D) RN - both letters move forward 4 places, matching VC to ZG; so NJ becomes RN **B1**

Answer: D) RN

Question 12

C) KQ - the letters swap places and each moves back 2 places, matching GL to JE; so SM becomes KQ **B1**

Answer: C) KQ

Question 13

C) JS - the first letter moves forward 5 places and the second letter moves forward 2 places, matching LQ to QS; so EQ becomes JS **B1**

Answer: C) JS

Question 14

B) FD - both letters move back 2 places, matching KE to IC; so HF becomes FD **B1**

Answer: B) FD

Question 15

E) DP - both letters move forward 3 places, matching EK to HN; so AM becomes DP **B1**

Answer: E) DP

Question 16

D) VD - both letters move back 1 place, matching LS to KR; so WE becomes VD **B1**

Answer: D) VD

Question 17

A) IZ - the first letter moves forward 3 places and the second letter moves forward 2 places, matching SX to VZ; so FX becomes IZ **B1**

Answer: A) IZ

Question 18

C) PS - both letters shift forward 3 places, matching F+3=I and I+3=L **B1**

Answer: C) PS

Question 19

D) VS - the first letter moves forward 5 places and the second letter moves back 5 places, matching ST to XO; so QX becomes VS **B1**

Answer: D) VS

Question 20

C) WV - both letters move back 1 place, matching RG to QF; so XW becomes WV **B1**

Answer: C) WV

Question 21

B) DI - both letters move back 4 places, matching YU to UQ; so HM becomes DI **B1**

Answer: B) DI

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Question 22

A) DF - the letters swap places and each moves forward 2 places, matching LC to EN; so DB becomes DF **B1**

Answer: A) DF

Question 23

A) PF - both letters move forward 2 places, matching XE to ZG; so ND becomes PF **B1**

Answer: A) PF

Question 24

C) NI - both letters move forward 3 places, matching GE to JH; so KF becomes NI **B1**

Answer: C) NI

Question 25

B) ZL - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching GV to TE; so AO becomes ZL **B1**

Answer: B) ZL

Question 26

D) EO - the two letters swap places, matching LE to EL; so OE becomes EO **B1**

Answer: D) EO

Question 27

B) PR - both letters move forward 4 places, matching VF to ZJ; so LN becomes PR **B1**

Answer: B) PR

Question 28

A) LS - both letters move forward 3 places, matching TK to WN; so IP becomes LS **B1**

Answer: A) LS

Question 29

B) LR - the first letter moves back 3 places and the second letter stays the same, matching YW to VW; so OR becomes LR **B1**

Answer: B) LR

Question 30

C) GC - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching WK to DP; so TX becomes GC **B1**

Answer: C) GC

Question 31

E) NT - both letters move forward 3 places, matching TR to WU; so KQ becomes NT **B1**

Answer: E) NT

Question 32

C) XS - the first letter moves forward 2 places and the second letter moves forward 5 places, matching CP to EU; so VN becomes XS **B1**

Answer: C) XS

Question 33

D) FG - the first letter moves forward 3 places and the second letter moves forward 2 places, matching OF to RH; so CE becomes FG **B1**

Answer: D) FG

Question 34

E) WE - both letters move back 3 places, matching WQ to TN; so ZH becomes WE **B1**

Answer: E) WE

Question 35

B) SM - both letters move forward 3 places, matching KW to NZ; so PJ becomes SM **B1**

Answer: B) SM

Question 36

C) PV - the letters swap places and each moves forward 1 place, matching PF to GQ; so UO becomes PV **B1**

Answer: C) PV

Question 37

B) LM - both letters shift forward 2 places, matching D+2=F and E+2=G **B1**

Answer: B) LM

Question 38

A) AV - the first letter moves back 2 places and the second letter moves back 3 places, matching FV to DS; so CY becomes AV **B1**

Answer: A) AV

Question 39

E) XB - both letters move forward 1 place, matching MS to NT; so WA becomes XB **B1**

Answer: E) XB

Question 40

C) ON - the two letters swap places, matching XO to OX; so NO becomes ON **B1**

Answer: C) ON

Question 41

B) SU - both letters move forward 1 place, matching SG to TH; so RT becomes SU **B1**

Answer: B) SU

Question 42

A) MI - both letters move forward 5 places, matching TQ to YV; so HD becomes MI **B1**

Answer: A) MI

Question 43

E) QV - both letters move back 3 places, matching TD to QA; so TY becomes QV **B1**

Answer: E) QV

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Question 44

B) LC - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching GI to TR; so OX becomes LC **B1**

Answer: B) LC

Question 45

E) QS - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching XO to CL; so JH becomes QS **B1**

Answer: E) QS

Question 46

A) RW - the first letter moves forward 5 places and the second letter moves forward 7 places (G+5=L, I+7=P) **B1**

Answer: A) RW

Question 47

D) XZ - both letters move forward 1 place, matching SP to TQ; so WY becomes XZ **B1**

Answer: D) XZ

Question 48

C) KR - the first letter moves forward 5 places and the second letter moves forward 4 places, matching PA to UE; so FN becomes KR **B1**

Answer: C) KR

Question 49

B) QT - the first letter moves back 3 places and the second letter moves forward 4 places, matching KD to HH; so TP becomes QT **B1**

Answer: B) QT

Question 50

A) GZ - both letters move forward 1 place, matching NE to OF; so FY becomes GZ **B1**

Answer: A) GZ

Question 51

A) BH - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching CI to XR; so YS becomes BH **B1**

Answer: A) BH

Question 52

A) CH - the first letter moves back 2 places and the second letter moves forward 2 places, matching GF to EH; so EF becomes CH **B1**

Answer: A) CH

Question 53

B) FU - both letters move forward 4 places, matching NU to RY; so BQ becomes FU **B1**

Answer: B) FU

Question 54

C) PE - the first letter moves forward 3 places and the second letter moves forward 4 places, matching DB to GF; so MA becomes PE **B1**

Answer: C) PE

Question 55

B) UV - both letters shift forward 6 places, matching B+6=H and C+6=I **B1**

Answer: B) UV

Question 56

A) YF - both letters move forward 5 places, matching JC to OH; so TA becomes YF **B1**

Answer: A) YF

Question 57

C) ZY - both letters move forward 4 places, matching CG to GK; so VU becomes ZY **B1**

Answer: C) ZY

Question 58

E) JU - the first letter moves back 3 places and the second letter moves back 5 places, matching QY to NT; so MZ becomes JU **B1**

Answer: E) JU

Question 59

D) MB - both letters move back 3 places, matching NJ to KG; so PE becomes MB **B1**

Answer: D) MB

Question 60

C) BL - both letters move forward 1 place, matching NX to OY; so AK becomes BL **B1**

Answer: C) BL

Question 61

B) CI - both letters move forward 2 places, matching IO to KQ; so AG becomes CI **B1**

Answer: B) CI

Question 62

D) VB - the first letter moves forward 4 places and the second letter moves back 5 places, matching IW to MR; so RG becomes VB **B1**

Answer: D) VB

Question 63

C) JG - swap the two letters, then shift each forward 1 place (B,D swap to D,B, then D+1=E, B+1=C, giving EC; so F,I swap to I,F, then I+1=J, F+1=G, giving JG) **B1**

Answer: C) JG

Question 64

B) UH - both letters move back 2 places, matching ON to ML; so WJ becomes UH **B1**

Answer: B) UH

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Question 65

D) UZ - the two letters swap places, matching VC to CV; so ZU becomes UZ **B1**

Answer: D) UZ

Question 66

A) JD - the first letter moves back 2 places and the second letter stays the same, matching TI to RI; so LD becomes JD **B1**

Answer: A) JD

Question 67

C) GR - both letters move back 3 places, matching UX to RU; so JU becomes GR **B1**

Answer: C) GR

Question 68

D) MP - the first letter moves forward 5 places and the second letter moves back 5 places, matching BJ to GE; so HU becomes MP **B1**

Answer: D) MP

Question 69

B) VD - both letters move back 2 places, matching RD to PB; so XF becomes VD **B1**

Answer: B) VD

Question 70

C) NJ - both letters move forward 2 places, matching DR to FT; so LH becomes NJ **B1**

Answer: C) NJ

Question 71

A) AW - the letters swap places and each moves back 3 places, matching WJ to GT; so ZD becomes AW **B1**

Answer: A) AW

Question 72

D) QV - the first letter moves forward 3 places and the second letter moves forward 5 places (J+3=M, L+5=Q) **B1**

Answer: D) QV

Question 73

C) CA - the two letters swap places, matching SQ to QS; so AC becomes CA **B1**

Answer: C) CA

Question 74

B) VX - both letters move forward 2 places, matching TC to VE; so TV becomes VX **B1**

Answer: B) VX

Question 75

D) ND - the first letter moves forward 5 places and the second letter moves forward 2 places, matching PK to UM; so IB becomes ND **B1**

Answer: D) ND

Question 76

A) MF - both letters move forward 1 place, matching NP to OQ; so LE becomes MF **B1**

Answer: A) MF

Question 77

D) QE - the two letters swap places, matching UB to BU; so EQ becomes QE **B1**

Answer: D) QE

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