

Step 2 Thinking Ahead

The page number and title of the exercise are written as: **3: The pin: A** (or B, C ...).

Most pages in the workbook have a layout of 4 rows and 3 columns. We read (4-2) as: fourth row, second column.

3: The pin A

- 1) 1. ♖xf6 ♗g8 2. ♖f7
- 2) 1. ♕e2 ♗xc3 2. ♖d1
- 3) 1. ♕e3 ♕c5 2. ♖b5 (2. ♖c7 ♗d4)
- 4) 1. ♖h3 h5 2. ♖h4
- 5) 1. ♖b3 f5 2. ♖a3
- 6) 1. ... ♕f4 2. ♖xc3 ♖c7
- 7) 1. 0-0 ♗xc4 2. ♖a4 (2. ... d5 3. exd6)
- 8) 1. ♖xh7 ♖xf4 2. ♕g3
- 9) 1. ... g6 2. ♖xg6 ♖g7 (2. ... ♖g8 3. ♖e4 moving away and protecting the mate on g2 is Step 2. A Step 3 solution is 3. ♖xh7+ ♖xh7 4. ♖xf6+ with perpetual check)
- 10) 1. ♗e5 ♖g5 2. ♖c1! (2. ♖d2? ♗h3+)
- 11) 1. f6 ♕xf6 2. ♖f4! (2. ♖f1? ♖a1)
- 12) 1. dxe5 ♕xc5 2. ♖c1 (2. ♖c2? ♕xf2+ 3. ♗xf2 ♖xc2) 2. ... ♕xf2+ 3. ♗xf2

4: Winning material A

- 1) 1. ♖xh6 ♖xg6 2. ♖xg7 (2. ♖h8+ ♗f7) (twofold attack thanks to X-ray protection)
- 2) 1. ♗c3 ♖e5 2. f4 (2. ♗xd5? ♖a1+; 2. ♖xd5? ♖e1#) (eliminating the defence)
- 3) 1. ... ♖xc5 2. ♖d2 ♖xc4 (2. ... ♖xc4? 3. ♖d8+) (twofold attack)
- 4) 1. ♗xa7 ♖xc3 2. ♗xc8+ ♖xc8 3. ♖xc8 (twofold attack thanks to X-ray protection)
- 5) 1. ♕f4 ♕e5 2. ♖xg3 (2. ♕xg3? ♕xg3)
- 6) 1. c4+ bxc3+ 2. ♗xc3+ (double attack thanks to a discovered check)
- 7) 1. ♖d3 ♖c8 2. ♕xa6 (2. ♕xe6+ ♗xe6 3. ♖xa6 ♖c1+) 2. ... ♖c1+ 3. ♖f1 (capture an unprotected piece)
- 8) 1. ♖c3+ ♗g8 2. ♖xe1 dxe1 ♖ 3. ♖xe1 (twofold attack thanks to X-ray protection)
- 9) 1. ♕b3 ♖d7 2. ♖c8+ ♗g7 3. fxe5 (intermediate move)

Route planner

(4-2)	(4-3)
♖g7	♗d2
♖c6	♖h2
♖g5	♖g7
♕d7	♕e2
♕e8	♕f4
♗e5	♗c4

5: Winning material B

- 1) 1. ♖d8 ♗h7 2. ♖xe8 ♗xe8 3. ♖xa8 (intermediate move)
- 2) 1. ♕c4+ ♗d6 2. ♕xb3 ♗xc5 3. ♕xf7
- 3) 1. ♖d8+ ♗h7 2. ♖g8+ (double attack)
- 4) 1. ♖d5+ ♖f7 2. ♕xg7 (2. ♖xc6? ♕xh6+) (double attack + intermediate move)
- 5) 1. ♗b4 ♗d2 2. ♕c4+ (intermediate move)
- 6) 1. ♖a7 ♖b8 2. ♖xb8+ (2. ♖xd7? ♖b1#) 2. ... ♖xb8 3. ♖xd7 (intermediate move + capture an unprotected piece)
- 7) 1. ... ♖c8 2. ♕xe5 f5 3. ♖xd4 ♗xe5 (intermediate move)
- 8) 1. ♗d6 ♕e7 2. ♗xc8 (2. ♖xc8? ♕xd6) (twofold attack)

- 9) 1. ♖d6 ♕xe5 2. ♖f7+ (2. ♖xc8? ♜f1#) (2. ♜xc8? ♕xd6) 2. ... ♔g8 (2. ... ♜xf7 3. ♜xc8+) 3. ♖xe5 (double attack)

Attack safely

(1-3)	(2-1)
♕f6	♖c6
♕f5	♕h6
♕h4	♕f2
♖e6	♕a4
♖b1	♖d1
♖e6	♖c3

6: Winning material C

1. d7 ♖xd7 2. ♕f5+ ♔h8 3. ♜xd7 (intermediate move)
1. ♜e6 ♜e7 2. ♜f5+ ♔g8 3. ♜xc8+ (intermediate move)
1. ♜d6 ♜axb7 2. ♜xb7 ♜xb7 3. ♜xb8 (twofold attack thanks to X-ray protection)
1. ♔a1 ♕f5 2. c8♖+ (double attack)
1. ♜d8+ ♔h7 2. ♜xc5 (♜h8# is illegal) 2. ... ♜xc5 3. ♜xa8; also 2. ♜h8+ ♜xh8 3. ♜xc5 wins. (luring away+material)
1. ... ♖c6 2. ♕f3 ♖xd4 3. ♕xd5 ♖e2+ (double attack)
1. ♖d6 ♜e1+ 2. ♔f2 (double attack)
1. ♜af1 ♜hf8 2. ♜xf8 ♜xh4 (2. ... ♜xf8 3. ♜xf8) 3. ♜1f7# (luring away+ material)
1. ♜xe4 ♜xa4 2. ♜c2 ♜d7 3. ♜c8+ (double attack)

Capture an unprotected piece

(4-2)	(4-3)
♜xg6	♜xb4
♜xh4	♜xf5
♜xd5	♜xg6
♜xc4	♜xc4
♜xd4	♜xf8
♜xe4	♜xe2

7: Eliminating the defence A

1. ♕d6 ♜e8 2. ♕b4 wins ♜a4 (chasing away+material)
1. f4 ♖c6 2. ♕xc6 ♕xc6 3. ♜xe7 wins ♕e7 (capturing+material)
1. ♕b5 ♕d7 2. e6 wins ♜c6 (luring away+material)
1. ♜xd8 ♜xd8 2. h5 wins ♕e7 (2. ... h6 3. ♖xe6) (chasing away+material)
1. ... b5 2. ♖e3 ♖h7 wins ♖e3 (chasing away+material)
1. ♜ch1 ♜h8 2. ♕xg6 ♜xh5 (2. ... ♔xg8 3. ♜xh8) 3. ♕xh5 (capturing/luring away+material)
1. ♜d4 ♖b6 2. ♜f4 wins ♜e6 (chasing away+material)
1. ♜xg7 ♖g6 2. ♖e5 (2. ... ♜c7 3. ♖xg6) 2. ... ♖xe5 3. ♜xh8+ (luring away/capturing+material)
1. ... ♖b4 2. ♜fa1 ♖xc2 3. ♜xc2 ♕xb3 (capturing+material)
- 10) Drawing
1. ♜d7 ♜c5 2. ♕e3 wins ♜c7 (chasing away+material)
1. ♜e2 ♜xd4 2. ♜d1 wins ♜g4 (chasing away+material)

8: Eliminating the defence B

1. ... ♜c8+ 2. ♔b4 ♖c2+ wins ♜c3 (chasing away+material)
1. ♜c2 ♕f5 2. g4 wins ♜e4 (luring away+material)
1. a5 ♜b8 2. bxc6 wins ♕d5 (capturing+material)
1. ♜c7 ♜c8 2. g4 hxg4 3. hxg4 wins ♜c8 (chasing away+material)
1. ♜xc7 ♜c8 2. ♕b5 ♜xb5 (2. ... ♜d8 3. ♜xf7+) 3. ♜xc8 (chasing away+material)

- 6) 1. ♖b6+ ♗c7 2. ♖xd7 ♗xd7 3. ♗xf8 (luring away+material)
- 7) 1. ♖g5 ♗c7 2. ♖xf7 ♗xf7 3. ♗xd8 (chasing away+material)
- 8) 1. ♗xc6 ♖d4 2. ♖e8 wins ♗d4 (chasing away+material)
- 9) 1. h4 ♖f3 2. ♗c2 wins ♗f3 (chasing away+material)
- 10) 1. ♗e8+ ♗f8 2. ♗c4+ (2. ♗h7+? ♗xh7 3. ♗xf8 ♗d1+) 2. ... ♗h7 3. ♗xf8 ♗d1+ 4. ♗f1 (chasing away+material)
- 11) 1. ♗g2 ♗e5 (1. ... ♗h3? 2. ♗xg5+) (1. ... ♗f4? 2. ♗xf4) (1. ... f5? 2. ♗xg5+) 2. ♗xg5+ (luring away+material)
- 12) 1. c4+ ♗d4 2. ♗g4+ (2. ♗d6+? ♗c5) (chasing away+material)

9: Mate / Visualising A

- 1) 1. ♖b7 ♗b5 2. ♗c4#
 1. ♖b7 ♗xb7 2. ♗c8#
 1. ♖b7 ♗xb7 2. ♗a4#
 1. ♖b7 b5 2. ♗c6#
- 2) 1. ♗g1 ♗xh6 2. ♗f4#
 1. ♗g1 ♗h8 2. ♗e5#
 1. ♗g1 ♗f8 2. ♗d6#
 1. ♗g1 ♗f6 2. ♗h4#
- 3) 1. ♗g3 a5 2. ♗b5#
 1. ♗g3 ♗b7 2. ♗d6#
 1. ♗g3 ♗d7 2. ♗e8#
 1. ♗g3 ♗b6 2. ♗c7#
- 4) 1. ♗g2 ♗e5 2. ♗e4#
 1. ♗g2 ♗c3 2. ♗f6#
 1. ♗g2 ♗c5 2. ♗f2#
 1. ♗g2 ♗e3 2. ♗f2#
- 5) 1. ♗f3 d2 2. ♗a4#
 1. ♗f3 d4 2. ♗f7#
 1. ♗f3 ♗b3 2. ♗xd5#
 1. ♗f3 ♗d4 2. ♗f4#
- 6) 1. ♖h5 ♗xh5 2. ♗e8#
 1. ♖h5 ♗h7 2. ♗c2#
 1. ♖h5 ♗f5 2. ♗f6#
 1. ♖h5 ♗f7 2. ♗e8#

Mate? Yes or no

- | | |
|-------|-------|
| (4-2) | (4-3) |
| no | no |
| yes | yes |
| no | no |
| no | no |
| no | no |
| no | yes |

10: Mate / Visualising B

- 1) 1. ♗h7 g1 ♗ 2. ♗c2#
 1. ♗h7 g1 ♖ 2. ♗h2#
 1. ♗h7 f5 2. ♗a7#
 1. ♗h7 ♗g1 2. ♗c5#
- 2) 1. ♗h8 g4 2. ♗e5#
 1. ♗h8 ♗xf5 2. ♖e5#
 1. ♗h8 ♗g3 2. ♗h2#

1. ♖h8 ♕e3 2. ♖d4#
- 3) 1. ♗c5 ♕c3 2. ♗a4#
 1. ♗c5 ♕c1 2. ♗d3#
 1. ♗c5 ♕a1 2. ♗d4#
 1. ♗c5 ♕a3 2. ♗c4#
- 4) 1. ♗c4 d5 2. ♖f7#
 1. ♗c4 ♕d5 2. ♖d6#
 1. ♗c4 ♕f5 2. ♖xd7#
 1. ♗c4 d6 2. ♖f7#
- 5) 1. ♗a3 ♕d6 2. ♖c4#
 1. ♗a3 ♕d8 2. ♖d4#
 1. ♗a3 ♕f6 2. ♖f4#
 1. ♗a3 ♕f8 2. ♖g4#
- 6) 1. ♖a4 ♕c4 2. ♖d3#
 1. ♖a4 d5 2. ♖f4#
 1. ♖a4 ♗d8 2. b5#
 1. ♖a4 e5 2. ♖d3#

Mate in one

- | | |
|------------|-------|
| (4-2) | (4-3) |
| ♖f8# | ♖a7# |
| ♖g5# | ♖f8# |
| ♖a7# | ♖f7# |
| ♖d7# | ♖c8# |
| f8♖#, f8♗# | ♗f8# |
| ♖a7# | ♗f3# |

11: Double attack A

- 1) 1. dxc5 ♗xc5 (1. ... ♗d7!) 2. ♖a4+
- 2) 1. ♖d1 ♖xc2 2. ♖f5
- 3) 1. ♗xa6 ♖xa6 2. ♖b7
- 4) 1. ♖xa5 ♖c1 2. ♖d2+
- 5) 1. ♗ac3 ♖xa3 2. ♗b5 ♖a2 3. ♗xd4
- 6) 1. ♖ad1 ♖c6 2. ♗e7
- 7) 1. ♖f3 ♗e5 (1. ... d5!) 2. ♖f6
- 8) 1. ... b5 2. ♗d2 ♗c2
- 9) 1. ♗d4 ♖c3 2. ♗b5 a6 (2. ... ♖b8 3. ♗c7#) 3. ♗xc3
- 10) 1. d5 ♗xd5 2. ♖d4
- 11) Drawing
- 12) 1. ♗xh7 ♕xh7 2. ♖c2+ and 3. ♖xc6

12: Double attack B

- 1) 1. ... b5 2. h5 ♖g5+
- 2) 1. ♕c3 ♗e5 2. ♖f5+
- 3) 1. ... ♗f7 2. ♗f4 ♖c4
- 4) 1. ♖xf4 ♖xh4 2. ♖g4+
- 5) 1. ♗c5 ♖xe5 2. ♗d3
- 6) 1. ... ♗bd4 2. ♗c3 ♗e6
- 7) 1. ♖d2+ ♕e7 2. ♖e2+
- 8) 1. b5 ♖xa3 2. ♖b4
- 9) 1. ♖f4 ♗xb2 2. ♖b4
- 10) 1. ♕h2 ♖xc2 2. ♖a3

- 11) 1. ♖e3 ♗xg5 2. ♖c5
 12) 1. ♖xe4 ♗f5 2. ♗e7+

13: Double attack C

- 1) 1. ♖b8+ ♔f7 2. ♖f4+ (2. ♖a7+? ♗e7)
 2) 1. ♖d4 ♗f6 2. ♖b4+ (2. ♖d8+? ♖e8+)
 3) 1. ♗d2 ♗xd5 2. ♖g2+ (2. ♖e6+? ♗f7)
 4) 1. ♖b3 ♗xg2 2. ♖h3 (2. ♖xd5+? ♗c6)
 5) 1. h3 ♗e5 2. ♖g3 (2. ♖d6? ♗e8)
 6) 1. ♖g3 ♗xb2 2. ♖c3 (2. ♖e5? ♗a3)
 7) 1. ♖xe5 ♗xa3 2. ♖c5 (2. ♖d6? ♗c3) (2. ♖e7? ♗c3)
 8) 1. ♖xf7 ♖xf7 2. ♗fd6+ (2. ♗ed6+ ♔c7 3. ♗xf7 ♗xf5) 2... ♔c7 3. ♗xf7
 9) 1. ♖f3 ♗f7 2. ♖c3 (2. ♖f6? ♗e6)

Double attack

(4-2)	(4-3)
♖e4+	♖h7+
♖c4+	♖e1+
♖c2+	♖g2+
♖e3+	♖g4+
♖h8+	♖a3+
♖b8+ (♖f2+? ♗f7)	♖g8+

14: Clever ways out of check A

- 1) 1. ♗xc5 ♗xe2+ 2. ♔xe2 (2. ♖xe2? ♖h1#) (prevent mate)
 2) 1. ... ♖f3 2. ♗xh7+ ♔g8 (2. ... ♔e7 3. ♖c7#) (prevent mate)
 3) 1. ♔f1 ♖d3+ 2. ♔g1 (2. ♔e1 ♗a5#) 2. ... ♖d1+ 3. ♗e1 (prevent mate)
 4) 1. ♗g1 ♗xe4+ 2. ♔f3 ♗xh4 3. ♗xc5 (win material)
 5) Drawing
 6) 1. ♖a3 ♗h3+ (1. ... ♗f3+ 2. ♔h1) 2. ♔h1 (2. ♔f1 ♖b5+) 2. ... ♗xf2+ 3. ♔g1 (prevent mate)
 7) 1. ♔g2 (1. ♔g4 ♗g7+ 2. ♔f5 ♗f8+) 1. ... ♗g7+ 2. ♔h1 (2. ♔f2 ♗d3#) 2. ... ♗h8+ 3. ♗h2 (prevent mate)
 8) 1. ♗d3 ♗e5+ 2. ♗xe5+ (2. f4? ♖xe2) (prevent material loss)
 9) 1. ♖xd4 ♖a5+ 2. b4 ♖c7 3. ♖xg4 (win material)
 10) 1. ♖xb1 ♖c1+ 2. ♗d1 (prevent mate)
 11) 1. c5 ♖d4+ 2. ♗e3 (win material)
 12) 1. ... ♔a7 2. ♖d4+ c5 (2. ... ♖xd4? 3. ♗xd4+ c5 4. ♗xc5#) (prevent mate)

15: Clever ways out of check B

- 1) 1. ♗xc5 ♖d5+ 2. e4 (prevent material loss)
 2) 1. ... ♗xg4 2. ♗c6+ ♔c8 (2. ... ♔e8 3. ♗d8#) (prevent mate)
 3) 1. ... fxe5 2. ♗c4+ ♗d5 3. ♗xd5+ ♔h7 (limit material loss)
 4) 1. ... ♗c6 2. ♗d8+ ♔f7 (prevent material loss)
 5) 1. ... ♗xc3 2. ♖g3+ ♗g4+ (win material)
 6) 1. ... ♗c8 2. ♖xc8+ ♗xc8 3. ♗xc8+ ♖f8 (prevent mate)
 7) 1. ... ♖a5 2. ♖c8+ ♖d8 (2. ... ♗xc8 3. ♗xc8+ ♖d8 4. ♗xd8#) 3. ♗xd8 (prevent mate)
 8) 1. ♗xb1 ♖xb1+ 2. ♖d1+ (2. ♗d1 ♗e1+) (prevent mate)
 9) 1. ♗xd6+ cxd6+ 2. ♔d2 (2. ♔b1 e1♖+) (limit material loss)
 10) 1. ... ♗xe5 2. ♖c4+ ♗e6 3. ♖c3 (prevent material loss)
 11) 1. ♖xb6 ♖b8+ 2. ♗d6+ (win material)
 12) 1. ♗ee2 ♗xg2+ 2. ♖xg2 ♗xg2+ 3. ♔xg2 (prevent material loss)

16: Clever ways out of check C

- 1) 1. ... ♖c5 2. ♗b5+ c6 (win material)
- 2) 1. ... ♗xg3 2. ♕e4+ ♖c6 (win material)
- 3) 1. ♕h5 g6+ 2. ♗xg6 (2. ♕g4 h5#) (2. ♕xh6 ♗h4#) 2. ... fxg6+ 3. ♕xg6 (prevent mate)
- 4) 1. ... ♕h7 2. ♗c7+ ♗d7 (2. ... ♕h6 3. ♗h2+) (2. ... ♕g8 3. ♗g7#) 3. ♗xd7+ ♕h6 (prevent mate)
- 5) 1. ♕xc6 ♕c5+ 2. ♕d4 ♕xd4+ 3. ♕h1 (prevent material loss)
- 6) 1. ... ♗xd4 2. ♗d8+ ♕e6 (2. ... ♕c6 3. ♗c7#) (2. ... ♕e5 3. ♗e7#) (prevent mate)
- 7) 1. ♗d3 ♖d4+ 2. ♗xd4 (2. cxd4 ♗xd7) (2. ♗xd4 cxd4) (win material)
- 8) 1. e7 ♕b6+ 2. ♗xb6 (2. ♕g3 ♗g5#; 2. ♕g2 ♗xe2+; 2. ♕f1 ♗d1+) (win material)
- 9) 1. ♖d6 ♕h5+ 2. g4 ♕xg4+ 3. f3 (win material)
- 10) 1. ... ♗xa2 2. ♗b3+ ♕c8 (2. ... ♕a7 3. ♗xa2+) (2. ... ♕c6 3. ♗b5+ ♕d6 4. ♗d5#) (prevent material loss)
- 11) 1. ♕b5 ♗e4+ 2. ♕a1 (2. ♕a2 ♗d5+) (2. ♕c1 ♗e3+) (prevent material loss)
- 12) 1. ... ♗f7 2. ♗a8+ ♕h7 (2. ... ♗f8? 3. ♗d5+) 3. ♗e4+ ♗g6+ (prevent material loss)

17: Blind chess / Short games A

- 1: 3. ... ♖xe5 4. ♖xd5 3. ♕xg7
- 2: 4. ... ♖xd4 4. ♖xe5 4. ... ♗xg5
- 3: 4. ♕xb7 4. ♗xg4 4. ♗xg4
- 4: 4. ... ♖xg5 4. dxe5 4. ♕xg7
- 5: 4. ♗xg7 4. ... ♕xf4 4. ♖xb4
- 6: 4. e5 (and 5. exf6 or 5. ♗xa8)
- 7: 5. exf6
- 8: 5. dxc6
- 9: 5. dxc5

18: Tactics in the opening A

- 1) 1. ♗g3 g6 2. ♗c3 (double attack)
- 2) 1. ♗xb5+ c6 2. exf6 (intermediate move)
- 3) 1. ♕xc6 bxc6 2. ♗d4 (double attack)
- 4) 1. e6 ♗e7 2. ♗f7+ ♗xf7 3. exf7# (mate in two)
- 5) 1. ... b5 2. ♕xb5 ♗b6 (double attack)
- 6) 1. ... dxe4 2. ♖xe5 ♗a5+ (double attack)
- 7) 1. ♕b5+ ♕d8 2. ♗e1 (pin)
- 8) 1. ♗e2 ♕xf3 2. ♖f6# (mate in one by double check)
- 9) 1. ♗xb7 ♗c6 2. ♕b5 (pin)
- 10) 1. b4 ♕b6 2. ♖xb6 ♕xc4 3. ♖xc4 (3. ♖xa8 ♗xa8 wins less material) (discovered attack)
- 11) 1. ♕e6+ ♕xe6 (1. ... ♕b8 2. ♗f8+) (1. ... fxe6 2. ♗c7#) 2. ♗xg2 (eliminating the defence)
- 12) 1. ... ♖xd4 2. ♗xg7 ♖xc2+ 3. ♕e2 ♗d3# (3. ... ♖xa1 4. ♖xe4) (mate in two)

19: Tactics in the opening B

- 1) 1. ... d5 2. exd5 ♕c5 (pin)
- 2) 1. ♖c3 ♖xd4 2. ♗a4+ ♖c6 (2. ... c6 3. ♗xd4) 3. ♗xg4 (double attack)
- 3) 1. ♖e5 ♖xe5 2. ♗xa7+ ♕c8 3. ♗a8# (eliminating the defence)
- 4) 1. ♖c3 ♗xb2 2. 0-0-0+ (double attack)
- 5) 1. ♖e5 ♗g5 2. ♖f3 (eliminating the defence)
- 6) 1. ♗c4 d6 2. e5 (discovered attack)
- 7) 1. ♗xf7+ ♖xf7 2. ♖f6+ gxf6 3. ♕xf7# (mate in two)
- 8) 1. ♖h4 g5 2. ♗h5+ ♕e7 3. ♖f5# (mate in two)
- 9) 1. ... c5 2. dxc6 ♕c5 (eliminating the defence)
- 10) 1. ... hxg5 2. hxg5 ♗xf2+ 3. ♗xf2 ♕xf2+ 4. ♕xf2 ♗xh1 (intermediate move)
- 11) 1. ♖xe5 ♗xe5 2. ♖d5 (discovered attack)
- 12) 1. ... cxd5 2. ♕xd5 (2. ♗xd5 ♖b6 3. ♗xd8 ♗xd8) 2. ... ♖f6 (double attack)

20: Mate / Visualising C

- 1) 1. ♖e2+ ♕c3 2. ♘e4#
1. ♖e2+ ♕a3 2. ♙c5#
1. ♖e2+ ♕a1 2. ♙d4#
1. ♖e2+ ♕c1 2. ♙e3#
- 2) 1. ♖f5 ♕h6 2. ♖xh7#
1. ♖f5 ♕h4 2. ♖h3#
1. ♖f5 ♘xg5 2. ♖xg5#
1. ♖f5 ♘f6 2. ♘f3#
- 3) 1. ♖d7 ♕c5 2. ♖d6#
1. ♖d7 ♕a3 2. ♙d6#
1. ♖d7 ♕xa5 2. ♖b5#
1. ♖d7 ♕c3 2. ♙e1#
- 4) 1. f3 ♘g1 2. f4#
1. f3 ♘d4 2. ♖b8#
1. f3 ♘f4 2. d4#
1. f3 f4 2. ♖c5#
- 5) 1. ♙g4 ♙xh6 2. ♙h5#
1. ♙g4 ♕xh6 2. ♖f6#
1. ♙g4 ♕f7 2. ♖e6#
1. ♙g4 ♙a3 2. ♖g7#
- 6) 1. ♚f3 ♘g5 2. ♚f4#
1. ♚f3 f5 2. ♚e3#
1. ♚f3 fxe5 2. ♖d3#
1. ♚f3 ♕xf3 2. ♖e2#

Mate? Yes or no

- | | |
|-----------|-----------|
| (4-2) | (4-3) |
| yes | no (♚g7) |
| no (♙h6) | no (♕c8) |
| no (♘xe8) | no (♙b8) |
| no (♕g7) | yes |
| yes | no (♕xb6) |
| yes | yes |

21: Mate / Visualising D

- 1) 1. ♘d6 ♕xd6 2. ♖h2#
1. ♘d6 ♕b6 2. ♘d5#
1. ♘d6 ♕d8 2. ♖a5#
1. ♘d6 ♕b8 2. c7#
- 2) 1. ♖e8 ♕xg4 2. ♖e4#
1. ♖e8 hxg4 2. ♖h8#
1. ♖e8 ♙xg4 2. ♖e1#
1. ♖e8 ♙f1 (or ♙g2) 2. ♖xh5
- 3) 1. c4 dxc3 2. ♚xc3#
1. c4 d3 2. ♖d5#
1. c4 ♘f4 2. ♖c7#
1. c4 ♕xc4 2. ♖b5#
- 4) 1. ♖g4 c4 2. ♖d4#
1. ♖g5 ♕e5 2. ♖xg5#
1. ♖g5 e5 2. c4#
1. ♖g5 ♘f3 (or any other knight move) 2. ♖e4#

- 5) 1. ♖h2 ♕c3 2. ♖b2#
 1. ♖h2 ♕xe3 2. ♖f4#
 1. ♖h2 ♕c5 2. ♖d6#
 1. ♖h2 a3 2. ♖e5#
- 6) Drawing

Mate in one

- | | |
|-------|-------|
| (4-2) | (4-3) |
| ♖b7# | f8♖# |
| ♖d6# | ♗c6# |
| ♖f8# | ♙c3# |
| ♗e6# | ♙e4# |
| g4# | ♖c5# |
| g7# | ♖b4# |

22: Discovered attack A

- 1) 1. ♙e3+ ♕d6 (1. ... ♕b5 2. c4#) 2. e5+
- 2) 1. b4 ♖d5 2. e4
- 3) 1. b4 ♗d7 2. d6 ♖xd6 3. ♙xb7
- 4) 1. e5 ♖xd4 2. ♗ce2
- 5) 1. ... ♖xb7 2. ♖e4 d5 3. cxd5 ♙xa3
- 6) 1. ♙b2 ♖a5 2. b4
- 7) 1. ♖d4 b3 2. e5+
- 8) 1. ♖xe6 ♖d7 2. ♖xh6 gxh6 3. ♖xd7
- 9) 1. f4 ♗c6 2. ♗e6
- 10) 1. ♗e3 ♙xc6 2. ♗d6
- 11) 1. cxd5 ♙xd5 2. e4 ♙xb3 (2... ♕b7 3. exd5) 3. ♙a6#
- 12) 1. ♙c2 ♗cxe4 2. ♗f5 ♖a7 3. ♙xe4

23: Discovered attack B

- 1) 1. ♙xe3 ♙c3 2. ♙b6+ (2. ♙g5+? ♙f6)
- 2) 1. ♖d1+ ♕e8 (1. ... ♕c7? 2. ♖d6#) 2. ♙c6+ (2. ♙xg6+ ♗xg6) 2... ♗xc6 3. ♖xh4
- 3) 1. ♖h8+ ♕e7 2. ♗c6+! (2. ♗f5+? ♙xf5 3. ♖d8+ ♕e6) 2... ♖xc6 3. ♖d8#
- 4) 1. ♙b3 ♖a3 2. ♙g8+ (2. ♙c2+? ♗xc2)
- 5) 1. ♙d5 ♖d8 2. ♙b7 (2. ♙xf7+? ♖xf7+)
- 6) 1. ♖xc8+ ♗xc8 2. ♙b5 (2. ♙g4? ♖c6; 2. ♙a6? ♖d7)
- 7) 1. ♖c3 ♙g4 2. ♗e5+ (2. ♗xe7+? ♖xe7 3. ♖xc8 ♙xc8) 2. ... dxe5 3. ♖xc8
- 8) 1. ♗xe7+ ♖xe7 2. ♙h7+ (2. ♙d5+? ♗e6)
- 9) 1. ♖f4 ♗g4 2. ♗c6+ (2. ♗g6+? ♕d8)
- 10) 1. ... ♙g7

2. ♖h2 ♗f3+	2. ♖b8 ♗c6+
2. ♖xe7 ♗c6+ / ♗f5+	2. ♖c7 ♗b5+ / ♗e6+
2. ♖e1 ♗c2+ / ♗f3+	2. ♖c5 ♗b3+ / ♗e6+
2. ♖g5 ♗f3+ / ♗e6+	2. ♖g3 ♗e2+ / ♗f5+
2. ♖e4 ♗e2+ 3. ♕a2 ♗c3+	
2. ♖d5 ♗b5+ 3. ♕b1 ♗c3+	

24: Defending against mate A

- 1) 1. e7 ♖f5 (1. ... ♖h8 2. e8♖) 2. ♖e5
- 2) 1. ... ♙xc6 2. ♖xc6 ♖b5
- 3) 1. ♕d4 ♖g3 2. e5
- 4) Drawing
- 5) Drawing

- 6) 1. ... ♖xd4 2. ♗h5 f5
- 7) 1. ♕f1 ♖f8 2. c3 (2. ♜e2? ♗h1#) (2. ♕e2? ♖xf2+)
- 8) 1. ♖a3 ♗h3 2. ♙e5+ ♕c8 3. ♖xh3
- 9) 1. ♗xc7 ♖xd4 2. ♙e2 ♗a1 3. ♙f1
- 10) 1. ♙xd6 ♗e4 2. ♙b4+ ♕xa4 3. ♙e1
- 11) 1. ... ♖f8 2. ♗g4 ♖g8 (2. ... g6? 3. ♗d4+) (2. ... ♖xf7? 3. ♗xc8+) (2. ... ♗xg4? 3. ♖xf8#)
- 12) 1. e5 ♖h6 2. ♕f1

25: Defending against mate B

- 1) 1. ♗xb1 ♖xg7 2. ♗b8 ♖h7+ 3. ♗h2+
- 2) 1. ♗xa2 (1. ♗f4+ ♕g6) (1. ♗h6+ ♕f5) 1. ... ♗h3 2. ♗a6+ ♕g7 3. ♗f1
- 3) 1. ♖xh6 ♖g3 2. ♖g6+ ♖xg6 3. ♗xg6
- 4) 1. ... ♕g8 2. ♗b7 ♗h8
- 5) 1. ♕a2 ♗d1 2. b3 (2. ♗f6 b3#) (2. ♗b1 ♗a4#)
- 6) 1. ... ♗xg4 2. ♗h6 ♙h7 (2. ... ♗e6? 3. ♗h8#) (2. ... ♗h5? 3. ♗g7#)
- 7) 1. ... ♖xc2 2. ♗f5 f6 (2... ♙xf5? 3. ♖e8#) 3. ♗e3
- 8) 1. ... ♗c7 2. ♗e8 ♗c3
- 9) 1. f4 ♖gxg2 2. ♕b1

Defending against mate

Example below the diagram: ♕h3 ♖g4 ♗d2 ♜f1 g5

The pawn move g4-g5 creates the escape square g4. Moving away the king doesn't work: ♕h4? ♗h6#

(4-2)	(4-3)
g4 (g3)	a3 (a4)
bxc3	b3
♙b7	♕b1
♗a7+	♗h1
♖xf2	♗h3
♕b1	g8♗+ (1. g8♗? ♗f6+ 2. ♗g7+ ♗xg7#)

26: Double attack D

- 1) 1. ♙h6+ ♙g7 (1. ... ♕g8 2. ♗a3) 2. ♗a3+
- 2) 1. d5 ♗a5 2. ♗c3
- 3) 1. ♖b3 ♖xb2 2. ♖gxb7+ ♕a8 3. ♖xb2
- 4) 1. ... ♖xd3 2. ♖d1 ♗d5+ (2. ... ♖xg3+? 3. hxg3 ♗xc2 4. ♖d8#)
- 5) 1. ♗e6 ♖b7 (1. ... ♗g8!) 2. ♗f8
- 6) 1. ♙xc5 ♙h3 (1. ... ♙h1 2. f4) 2. f3 ♗xc5+
- 7) 1. h4 ♖xe2 2. ♕f3 b2 3. ♖f8#
- 8) 1. ♙d4+ ♕a5 2. ♕c7 ♕b4 (2... ♖e8 3. ♙c3#) 3. ♕xb8
- 9) 1. ♖xd5 exd5 2. ♗f5
- 10) 1. ♗d6 ♖b6 2. ♖xf7 ♖b8 3. ♖xd7
- 11) 1. ... e1♗ 2. ♙xe1 ♖xe1 3. ♗d3 (threatens 4. ♗xe1 and 4. ♖b6#); 3. ♖b6+? ♕d7
- 12) 1. ♕d6 ♖xe5 (1. ... ♖f1!) 2. ♖a7 (2. ♖b7? ♕c8 3. ♖c7+ ♕b8)

27: Double attack / Visualising A

- 1) 1. ... ♖xe3 2. ♗c4
 2. ... ♖b3 3. ♗a5+
 2. ... ♖f3 3. ♙e4+
 2. ... ♖e8 3. ♗d6+
- 2) 1. ♗e3+ ♕e6 2. ♗f8+
 1. ... ♕xf4 2. ♗g2+ (2. ... ♕xf4 in the workbook should be 1. ... ♕f4 2. ____)
 2. ... ♕d6 3. ♗f5+
 2. ... ♕e7 3. ♗g6+ (3. ♗f5+)

- 3) 1. e3+ ♖e4 2. ♜c8
 2. ... ♜xc8 3. ♗d6+
 2. ... ♜b1 3. ♗d2+
 2. ... ♜b7 3. ♗d6+
- 4) 1. f5
 1. ... ♜g7 2. ♕a3#
 1. ... ♜g5 2. ♗h7+
 1. ... ♜h8 2. ♗d7+
 1. ... ♗e7 2. ♗g8+
 1. ... ♜f4 2. ♕a3+ ♗g7 3. ♗h5+
- 5) 1. ♗e2+ ♗e5 2. d4+
 2. ... ♗e6 3. ♗f4+
 2. ... ♗d5 3. ♗f4+
 2. ... ♗e4 3. ♗g3+
 2. ... ♗f5 3. ♗g3+
 1. ♗e2+ ♗c5 2. d4+ ♗d5 3. ♗f4+
- 6) 1. ♗e6+ ♗e8 2. e5
 2. ... ♜a8 3. ♗c7+
 2. ... ♜c8 3. ♗g7+
 2. ... ♜d7 3. ♕h5#
 2. ... ♗d7 3. ♗d4+
 2. ... ♜e4 3. ♕h5+ ♗d7 4. ♗c5+
- 7) 1. ♜a4 ♜g8 (1. ... ♜xa4 2. ♕e8+) 2. ♜a8
 2. ... ♜xa8 3. ♕f3+
 2. ... ♜b3 3. ♗d4+
 2. ... ♜c4 3. ♜c8+
 2. ... ♜d5 3. ♗b4+
 2. ... ♜e6 3. ♗d4+ ♗b7 4. ♕f3+ (3. ♜a6+ wins too)
 2. ... ♜h7 3. ♕g6 ♜xg6 4. ♜a6+

28: Double attack / Visualising B

- 1) 1. ... ♗e5
 2. ♜h3 ♗d3+ 3. ♗f1 ♗f4+
 2. ♜a4 ♗d3+ 3. ♗f1 ♗c5+
 2. ♜d1 ♗d3+ 3. ♗f1 ♗b2+
 2. ♜e4 ♗d3+ 3. ♗d1 ♗f2+
- 2) 1. ... ♗b4
 2. ♜h7 ♗d5+ 3. ♗e4 ♗f6+
 2. ♜b3 ♗d5+ 3. ♗e4 ♗d2+
 2. ♜d1 ♗d5+ 3. ♗e4 ♗c3+
 2. ♜e2 ♗d5+ 3. ♗e4 ♗g3+
- 3) 1. h4+ ♗f5 2. ♗f2
 2. ... ♜g6 3. ♗e7+
 2. ... ♜d1 3. ♗e3+
 2. ... ♗e4 3. ♗xf6+
 2. ... ♗g6 3. ♗f4+
- 4) 1. ♜g7 b5 2. b4
 2. ... ♜e5 3. ♗g6+
 2. ... ♜e1 3. ♗g2+
 2. ... ♜f8 3. ♗g6+
 2. ... ♜d8 3. ♜h7+ ♗g5 4. ♗e6+
- 5) 1. ♗c3+ ♗a5 2. ♗g8
 2. ... ♜xb2 3. ♗c4+

2. ... ♖xb6 3. ♘d5+
 2. ... ♜c5 3. ♘b3+
 2. ... ♜f4 3. ♘b3+ ♖xb6 4. ♘d5+
- 6) 1. ... ♖g4
 2. ♜a4 ♜f4+ 3. ♖e3 ♘d5+
 2. ♜a5 ♜e8+ 3. ♖d4 ♘c6+
 2. ♜c3 ♜f4+ (♜e8+ in workbook is wrong) 3. ♖e3 ♘d5+
 2. ♜b3 ♜f4+ 3. ♖e3 ♜f3+
 2. ♜a1 ♜f4+ 3. ♖e3 ♘c2+
- 7) 1. e4
 1. ... ♜a8 2. ♜a1+
 1. ... ♜c6 2. ♘b3+
 1. ... ♜d8 2. ♘b7+
 1. ... ♜a2 2. ♜a1 ♜xa1 3. ♘b3+
 1. ... ♜e5 2. ♜a1+ ♜xa1 3. ♘b3+
 1. ... ♜e5 2. ♜a1+ ♖b4 3. ♘d3+
 1. ... ♜e5 2. ♜a1+ ♖b6 3. ♘d7+

29: Draws: Stalemate A

- 1) 1. cxd5 ♜xd5 2. ♜d3+ ♜xd3 stalemate
 2) 1. ♜xa2+ ♜xa2 2. ♜b2+ ♜xb2 stalemate
 3) 1. g7 ♜a8 2. g8♜ ♜xg8 stalemate
 4) 1. a5+ ♖a7 2. ♜c5+ ♜xc5 stalemate
 5) 1. ♜xf5 ♜xd6 2. ♜d7+ ♜xd7 stalemate
 6) 1. ♜b2+ ♜b4 2. c3 ♜xb2 stalemate
 7) 1. ♜xh1 g1♜ 2. ♜e5+ ♜xe5 stalemate
 8) 1. ♖e5 ♜g7+ 2. ♖f4 ♜xd4 stalemate
 9) 1. ♜xa2 ♜xb7 2. ♜g2+ ♖xg2 stalemate
 10) 1. ♜e8 ♜xe8+ 2. g8♘+ ♖g6 stalemate (2. ... ♜xg8+? 3. hxg8♜)
 11) 1. ♜h4 f2 (1. ... ♙g3 2. ♜xh2+ ♙xh2 3. ♖f2) 2. ♜h5 ♜xh5 stalemate
 12) 1. ♜g7+ ♖e6 2. ♜f7 (2. ♜g1? fxg1♙!) 2. ... ♖xf7 stalemate

30: Draws: Stalemate B

- 1) 1. h3 h5 2. ♜c7 ♜xc7 stalemate (2. ... ♜e8 3. ♘xe8 stalemate)
 2) 1. g8♜ ♙xc7 2. ♜c4+ (2. ♜a2 ♜xa2) (2. ♜g2+ ♜xg2) 2. ... ♜xc4 stalemate
 3) 1. ♜xf6+ ♙xf6 (1. ... ♖e8 2. ♜xg7) (1. ... ♖g8 2. ♜xe7) 2. e6+ ♖f8 stalemate
 4) 1. ♜xf3 g1♜ 2. ♜g3+ ♜xg3 stalemate
 5) 1. b8♜ ♜b1+ 2. ♖c6 ♜xb8 stalemate
 6) 1. ♜g3 ♙e6 (1. ... ♖e2 2. ♖xh3 f2 3. ♜xg2) 2. ♜xg2+ fxg2 stalemate
 7) 1. ♙d6 c1♜ 2. ♙f4+ ♜xf4 stalemate
 8) 1. ♜f5 (1. ♜hg5 ♜h6+ 2. ♜h7 ♜xg5 3. ♜f7+ ♖xf7) (1. ♜hh7 ♜e5 2. ♜h4 ♜xg7#) 1. ... ♜xf5
 2. ♜f7+ ♖xf7 stalemate
 9) 1. ♖b1 ♘xb3 2. e4+ ♖g5 stalemate (the e-pawn is pinned)

Mate (#), stalemate (=) or play (→)

(4-2)	(4-3)
stalemate	stalemate
♖h7	♖xb3
mate	mate
stalemate	stalemate
♖d7	♖a8
mate	mate

31: Winning material: yes or no? A

- 1) no 1. ♖a5 ♜b8 2. ♖xa4 ♜xd2
- 2) yes 1. ... ♜xc5 2. ♜fc1 ♜xf5 3. ♜xc7 ♜xb1+
- 3) no 1. ♙e3 ♙f7 2. ♜xf7? ♜d1+
- 4) yes 1. f4 ♜d8 2. ♙xc6 ♜d4+ 3. ♙g2
- 5) yes 1. ... ♜c8 2. ♙c7 ♜xc7 3. ♜d8+ ♙e8
- 6) no 1. ♙c4 ♜f5 2. ♙xd5? ♜b1+ 3. ♜f1 ♜xf1#
- 7) no 1. ... ♜xf5+ 2. ♜d3 ♜xf4? 3. ♜f3
- 8) no 1. ... ♜e8 2. ♙xd6? ♙d3+ 3. ♙g1 ♜e1+
- 9) yes 1. ... ♜f6 2. h5 ♜xf4 3. ♜xg6+ fxg6

32: Winning material: yes or no? B

- 1) no 1. ♙f4 ♙f6 2. ♙xd6? ♙e4
- 2) no 1. ♙b3 ♜e5 2. ♜xd5? (2. ♙xd5? ♜a1+) 2. ... ♜e1#
- 3) yes 1. ♙b6 ♜de8 2. ♜xd7 ♜xd7 3. ♜xd7 ♜e1+ 4. ♙g1
- 4) no 1. cxd4 ♙xd4 2. ♜xd4? ♜e1+ 3. ♜xe1 ♜xd4
- 5) no 1. ... ♙d7 2. ♜axb4? 2 (2. ♜bxb4? ♜xb4 3. ♜xb4 ♜xf3) 2. ... ♜xb4 3. ♜xb4 ♜xf3
- 6) yes 1. ♙xc5+ ♙xc5 2. ♜bxb4 (2. ♜axb4 ♜xb3)
- 7) yes 1. ... ♙xd5 2. ♙xd5 (2. ♙xd5? ♙xd5) 2. ... ♙xd5 3. ♙xd5+
- 8) no 1. ... cxd5 2. ♙xd5? ♙xd5 3. ♜xd5 ♜xe2 4. ♙f1 ♜e7
- 9) Drawing

33: Mate / Visualising E

- 1) 1. ♜e4 ♜a5 2. ♜xc6#
 1. ♜e4 ♜c5 2. ♜d7#
 1. ♜e4 ♙c5 2. ♜xc6#
 1. ♜e4 ♜e5 2. ♜xc6#
 1. ♜e4 ♜d5 2. ♜e7#
- 2) 1. ♜f4 fxg4 2. ♜xg4#
 1. ♜f4 gxh5 2. ♙f2#
 1. ♜f4 g5 2. ♜h2#
 1. ♜f4 ♙xh5 2. ♙f6#
 1. ♜f4 ♙h3 2. ♜h2#
- 3) 1. ♜g7 ♙e5 2. ♜g5#
 1. ♜g7 ♙xh4 2. ♜g4#
 1. ♜g7 ♜b8 2. ♜h7#
 1. ♜g7 ♜h6 2. ♜g4#
 1. ♜g7 ♙xh4 2. ♙g4#
- 4) 1. ♙e8 exf4 2. ♜e4#
 1. ♙e8 d5 2. ♜d7#
 1. ♙e8 ♙d5 2. ♜c4#
 1. ♙e8 ♙e7 2. ♜d7#
 1. ♙e8 ♙f5 2. ♙d7#
- 5) 1. ♜d5 ♜xa4 2. ♜b7#
 1. ♜d5 ♙xa4 2. ♜c6#
 1. ♜d5 ♜a6 2. ♜b4#
 1. ♜d5 ♜c7 2. ♜a5#
 1. ♜d5 ♜a8 2. ♜d7#
- 6) 1. ♙b1 ♙xb1 2. ♜c2#
 1. ♙b1 ♙a3 2. ♜a2#
 1. ♙b1 ♜a8 2. ♜xb4#
 1. ♙b1 b3 2. ♜c1#
 1. ♙b1 ♜a3 2. ♜c2#

Creating mate

(4-2)	(4-3)	
♖a1	♜f3	♙h3
♜a7 ♘c6	♜c2	♖b1
♜b5 ♘c7	♜e6	♜g8
♜b6 ♘c4	♜b6	♜a8
♙a6 ♙c7	♖b7	♙c6
♘c3 ♘c6	♖a6	♙d6

34: Mate / Visualising F

- 1) 1. ♘c6 g6 2. ♖c4#
 1. ♘c6 ♜xc6 2. ♖f7#
 1. ♘c6 ♙d3 2. ♘b4#
 1. ♘c6 ♜e6 2. ♖f5#
 1. ♘c6 ♜xc6 2. ♖b5#
- 2) 1. ♜d5 e3 2. ♜e5
 1. ♜d5 cxd5 2. ♙d7#
 1. ♜d5 ♜f5 2. ♜d6#
 1. ♜d5 ♜xd5 2. ♙b3#
 1. ♜d5 ♜f7 2. ♖e5#
- 3) 1. ♖e7 ♙f2 2. ♖xd6#
 1. ♖e7 c5 2. ♘b5#
 1. ♖e7 ♙h2 2. ♖e3#
 1. ♖e7 d5 2. ♘e2#
 1. ♖e7 ♜c5 2. ♖a7#
- 4) 1. ♖a8 ♙d5 2. e4#
 1. ♖a8 ♙e5 2. ♖f3#
 1. ♖a8 ♜d4 2. ♖h8#
 1. ♖a8 ♙d4+ 2. e3#
 1. ♖a8 ♜d5 2. ♖e8#
- 5) 1. ♖e3 ♜a1 2. ♖d2#
 1. ♖e3 ♜b2 2. ♖c1#
 1. ♖e3 ♜c2 2. ♖g1#
 1. ♖e3 ♜xe2 2. ♖xe2#
 1. ♖e3 ♜c2 2. ♖b3#
- 6) 1. e4 dxe3 2. d4#
 1. e4 ♘f6 2. ♙xd4#
 1. e4 ♘b6 2. ♙b8#
 1. e4 ♘c5 2. ♜d5#
 1. e4 d3 2. ♖f5#

How many times mate? (? x #)

(4-2)	(4-3)
1x (♖g7)	3x (♖g2, ♖h4, ♖h5)
1x (♖g4)	2x (♖c8, ♖e7)
2x (♖c1, ♖e2)	2x (♖a1, ♖a7)
0x	2x (♖f8, ♖h7)
3x (♖a7, ♖d8, ♖h8)	2x (♘g6, ♖g8)
2x (♖a5, ♖b3)	1x (♖b7)

35: Test: Mix A

- 1) 1. ♖xc6 ♜ac8 2. ♖h6 (defending by moving away and protecting)
- 2) 1. ♖xd6 ♘g4 2. ♖f8+ ♜h7 3. ♖xg7# (mate in two)

- 3) 1. ... b5 2. ♖d2 ♗d4 (pin)
- 4) 1. ♖xf6+ ♕h6 (1. ... ♕g8 2. ♗c4+) 2. ♜d4 ♖g5 3. ♜h4+ (pinning and X-ray protection)
- 5) 1. ♖c3+ ♖f6 2. ♗f8+ (2. ♗d4 ♖a4+) (eliminating the defence: luring away+material)
- 6) 1. ♖h5 fxe4 2. ♖g4+ (eliminating the defence: capturing+material)
- 7) 1. ♖c5 ♖dc6 2. ♗xf7+ ♕xf7 3. ♖xc3 (discovered attack)
- 8) 1. ... ♖xd4 2. ♖f6 h6 (2. ... ♕g4 3. ♖g5#) (defending against mate by protecting)
- 9) 1. c4 ♗e6 2. ♜a1 (pin)
- 10) 1. a3 ♖c6 2. ♜xc6 bxc6 3. ♖xa5 (eliminating the defence: capturing+material)
- 11) 1. ... ♗c4 2. ♜xe5 ♖xf1+ 3. ♜xf1 ♜xf1# (mate in two thanks to X-ray protection)
- 12) 1. ... c5 2. dxc5 (2. ♖xb5 ♗xe4 3. ♖xe4 ♜xe4) 2. ... ♗xc3 (discovered attack)

36: Test: Mix B

- 1) Drawing
- 2) 1. ♗xf6 ♖b6+ 2. ♗d4 (getting out of check: winning material)
- 3) 1. ♗c5+ ♕xa6 2. c4 ♕a5 3. ♜a7# (threaten mate: bringing in the chaser)
- 4) 1. ♜dxh4 ♗g6 2. ♜xh7+ ♗xh7 3. ♜xh7# (mate in two thanks to X-ray protection)
- 5) 1. ♜c5 ♖f6 2. ♜g5+ (eliminating the defence: chasing away+material)
- 6) 1. ♖xg5 f6 (1. ... ♖xb7 2. ♖xd8+) 2. ♖a5 (defending by counter-attack)
- 7) 1. g7 d4+ 2. ♕b2 (2. ♕xd4? ♗b3) (2. ♕c4? ♕a4) (passed pawn)
- 8) 1. ♖c5+ ♖c6 2. ♖f8 (double attack: queen)
- 9) 1. ... a4 2. ♖c1 ♖h6 (double attack with two pieces)
- 10) 1. ♗c1 g5 2. ♖a2 (pin)
- 11) 1. ... ♖e5 2. ♖f6+ ♕g8 (getting out of check: preventing mate)
- 12) 1. ♖xd7+ ♖xd7 2. ♜xd7 ♜g2 3. ♜h7 (defending against mate)

37: Intermediate move A

- 1) 1. ♕f2 d5 2. ♗b5+ (counterattack with check)
- 2) 1. ♖xf3+ ♕g4 2. ♖h2+ (2. ♖e5+ ♕f5) (counterattack with check)
- 3) 1. ♗d3 ♗a3 2. ♖c7 (counterattack on an uncovered piece)
- 4) 1. e5 ♗xa4 2. ♜a1 ♖e4 3. ♜xa4 ♖xd2 4. ♖xd2 ♜c1+ 5. ♖f1
- 5) 1. ♗c3 ♗e5 2. d4 (counterattack on an uncovered piece)
- 6) 1. ♜c1 ♖d5 2. ♖a3 (counterattack on an uncovered piece)
- 7) 1. ♜ab1 ♜c8 2. ♖h5+ (counterattack with check)
- 8) 1. ... d4 2. g6? ♗d5 (counterattack with a mating threat)
- 9) 1. ♜ab1 ♗e3 2. ♖c2 (counterattack on an uncovered piece)

Attack all squares

- (4-2)
 ♖d2
 ♖h2
 ♖e8
 ♖g6
 ♖d1

Square ? is attacked 3 times

- (4-3)
 g5
 c4
 h5
 e5
 b7

38: Intermediate move B

- 1) 1. a5 ♕e5 2. ♖g6+ (2. ♖d3+ ♕d4)
- 2) 1. ♖b6 ♗b4 2. ♜f2+ (2. ♜d7+ ♕e6) (counterattack on an uncovered piece)
- 3) 1. fxe5 ♖c5 2. ♖g4 (counterattack on an uncovered piece)
- 4) 1. ♖e6 ♜xa2 2. ♜f7 (counterattack on material)
- 5) 1. ... ♜xc1 2. ♜xb7 ♖c6 (counterattack with a mating threat)
- 6) 1. ♖c4 exd3 2. ♖xe7+ ♕xe7 3. ♖xa5
- 7) 1. ♖c5 ♜d8 2. g3 (counterattack and defending against a threat)
- 8) 1. ♖e2 ♖xf2 2. ♖d4 (counterattack on material)

- 9) 1. ... d4 2. ♖e4 ♗d5 (counterattack on an uncovered piece)
- 10) 1. ♖c3 ♜c8 2. ♗b3+ ♕h8 3. bxa6 (♖c3 defending with tempo)
- 11) 1. ♖e4 ♗c6 2. ♗g4 (pinning the attacker)
- 12) 1. c4 ♖xd4? (1. ... ♗xd4! 2. cxb5) 2. ♗e8+ (2. cxd5? ♖xe2+) 2. ... ♜xe8 3. ♜xe8+ ♕g7 4. cxd5 (sacrifice the attacker by exchanging - Desperado)

39: Avoiding stalemate A

- 1) 1. ♕e6 a2 2. ♖a1
- 2) 1. h6 ♕xh6 2. g8 ♜
- 3) 1. ... ♜xf1 2. ♕xf1 ♕g3
- 4) 1. ♜xb8 b1 ♗ 2. ♜a7+ ♕xa7 3. ♜xb1
- 5) 1. ♕g6 ♜xb6 2. ♜f6 ♜a6 3. h6
- 6) 1. ♗c2 d5 2. cxd6 ♗xc2
- 7) 1. e7 ♖g6 (1. ... g6+ 2. ♕e4) 2. e8 ♜
- 8) 1. ♕g1 (1. ♕f1? ♜e1+ 2. ♕f2 ♜f1+) 1. ... ♜e1+ 2. ♗f1 (2. ♕f2? ♜f1+)
- 9) 1. ... ♗xc8 2. c4+ ♗xc4 (2. ... ♕xc4 3. ♗xc8+) 3. ♗d6#
- 10) 1. ... ♙c6 2. ♖c5+ ♕b5 3. ♖e4
- 11) 1. ... ♕xe1 2. ♜xf3 ♜h1+ 3. ♕xh1 gxf3
- 12) 1. ... ♕e8 2. ♗d8+ (2. ♗c6+ ♗d7) 2. ... ♕f7 3. ♖g5+

40: Capturing: yes or no (♙ or ♚) A

- 1) 1. ♖c4 ♙xe3 2. ♖xe3 ♜c1+ 3. ♜d1 (♙) (there is no mate on the bottom rank.)
- 2) 1. ♜ac1 ♖e2+ 2. ♗xe2 ♗f4# (♚)
- 3) 1. ♖e4 d5 2. ♜xd5 ♗xd1+ 3. ♜xd1 ♜xd1# (♚)
- 4) 1. cxd5 ♖xd5 2. ♕xd5 (2. ♜xf6 ♖xf6+ 3. ♕f5 ♕c7) 2. ... ♜xf4 3. ♙xd6+ (♙) (White wins the rook back with a double attack.)
- 5) 1. f4 ♖xe4 2. ♗xe4 (2. ♗f3!) 2. ... ♙b7 (♚) (White cannot capture the knight on e4 because of a pin.)
- 6) 1. ♗d2 ♖xf4 2. ♗xf4 ♙g5 3. ♜xg5 (♙) (the material remains balanced).
- 7) 1. ... ♗xe5 2. ♜xe5 ♜d1+ 3. ♖xd1 ♜xd1+ 4. ♜e1 (♙) (there is no mate on the back rank.)
- 8) 1. cxd5 exd5 2. ♙xd5 cxd5 3. ♜b5# (♚)
- 9) Drawing

41: Capturing: yes or no (♙ or ♚) B

- 1) 1. ... ♙xc2 2. ♗xc2! ♖e3+ (2. ... ♖xf4+ 3. ♗e4) 3. ♗e4 (♙) (The queen saves herself by moving away and interposing.)
- 2) 1. ♙xd6 ♜xd6? (1. ... ♗f6!) 2. ♗h6+ ♜xh6 3. ♜xh6# (♚)
- 3) 1. ♖xh4 ♜xh4! 2. f4+ gxf3+ (♙) (The discovered check saves; White has no time to play ♜xh4.)
- 4) 1. ♜b8 ♖xa4? (1. ... ♖c4!) 2. ♜b3 (♚) (The knight has been trapped.)
- 5) 1. ♜xc5 ♙xc5 2. ♗xc5! (2. ♗xa6 ♗xd2 3. ♗xb7 ♙xf2+) 2. ... ♗xd2 3. ♗c8+ (♙) (White wins back the rook with a double attack.)
- 6) 1. bxa5 ♗xa5 2. ♗xf6+! (2. ♗xb7? ♗a1+; (2. ♙xe5? ♗xe5) 2. ... ♙xf6 3. ♙xf6# (♙))
- 7) 1. ... ♙xc5 2. ♜xc5! ♗xa3 3. ♜dc8 (♙) (White defends against the double attack and the bottom rank mate.)
- 8) 1. ... ♙xc5 2. ♜xc5? ♗e3 (♚) (Capturing is wrong because of a double attack.)
- 9) 1. ... ♙xc5 2. ♜xc5! ♗e3 3. ♜c8+ (♙) (An intermediate check prevents loss of material.)

42: Threaten mate A

- 1) 1. ♗e5+ ♙e6 2. ♗d6 (2. ♗c7? ♖d7) → 3. ♗e7#
- 2) 1. ♜f1+ ♕e5 2. ♜hf6 → 3. ♜1f5#
- 3) 1. c6 a2 2. b7 → 3. b8 ♖#
- 4) 1. ♙d3 b3 2. ♙h7 → 3. ♜f5#
- 5) 1. ♗f7+ ♕h6 2. ♖f2 → 3. ♖xg4#
- 6) 1. ♖b6+ axb6 (1. ... ♕b8 2. ♖xe6#) 2. ♖a8 → 3. ♖xb6#

- 7) 1. ♖xf3+ ♕xh6 2. ♖g4 (2. ... ♖xc4 3. ♜f5#) → 3. ♜xf7# → 3. ♜f5#
- 8) 1. ♖xh6+ ♕g8 2. ♜d7 (2. ♜xe4? ♙b7) → 3. ♜xf6#
- 9) 1. ♚xg7 g1♖ 2. ♚b7 → 3. ♚b8#

Mate / Visualising

(4-2)

♕c2 ♖b7 ♕a3 ♜a5

1. b8♖ ♕a2 2. ♖b2#; 1. ... ♕a4 2. ♖b3# ; 1. ... a4 2. ♖b2#

♕g6 ♖b2 ♕h8 ♙h6

1. ♖b7 ♕f8 2. ♖f7#; 1. ... ♕h8 2. ♖h7# ; 1. ... ♙g2 2. ♖g7#

♕c6 ♖h6 ♕a6 ♜b2

1. ♖e3 ♕a5 2. ♖a3#; 1. ... b1♜ 2. ♖b6# ; 1. ... b1♖ 2. ♖a3s#

43: Threaten mate B

- 1) 1. ♚xg6+ ♕h3 2. ♕g1 → 3. ♙f1#
- 2) 1. ♙xc4 a2 2. ♕g2 → 3. ♙e2# / 3. ♚xg6# (2. ... f4 3. ♙e6#)
- 3) 1. f4+ ♕h5 2. c3 → 3. ♙d1#
- 4) 1. ♜xd7 a2 2. ♜f8 → 3. ♚h7#
- 5) 1. ♜xd8 f2 2. ♚e8 → 3. ♜e6#
- 6) 1. d6 c2 2. ♙e8 → 3. ♚g6#
- 7) 1. ♚h4+ ♖h7 2. ♜f6 → 3. ♚g8#
- 8) 1. ♚xh7 e2 2. ♕b7 → 3. ♚d7#
- 9) 1. ♚xc7 h2 2. ♚g7 → 3. ♙d7#

Mate / Visualising

(4-2)

♕a5 ♖e5 ♙g1 ♕b7

1. ♙h2 ♕a8 2. ♖b8#; 1. ... ♕c8 2. ♖c7# ; 1. ... ♕c6 2. ♖b5#

♕d1 ♖h1 ♙g8 ♕b2

1. ♖d5 ♕b1 2. ♖a2#; 1. ... ♕a3 2. ♖b3# ; 1. ... ♕c3 2. ♖d2#

♕f6 ♖f7 ♖g2 ♕g4

1. ♖b3 ♕h5 2. ♖h3#; 1. ... ♕f4 2. ♖f3# ; 1. ... ♕h4 2. ♖h3#

44: Passed pawn A

- 1) 1. c6 ♜e4 2. c5
- 2) 1. b8♖+ ♙xb8+ 2. ♕b7
- 3) 1. ... d2 2. ♖xd6 ♚e1+ (2. ... ♚d7 3. ♖b8+)
- 4) Drawing
- 5) 1. ... c2 2. ♖a3 (2. ♕d2 ♜b3+) 2. ... ♜b3
- 6) 1. c7 ♙e5 2. ♜e7+ (2. ♜d6 ♙xd6+ 3. ♕a4 ♙xc7)
- 7) 1. ♙c5 ♚e1 2. ♙e3
- 8) 1. c7 ♖c2 2. ♚a8 ♖xc7 3. ♚h8#
- 9) 1. ... ♚g1 2. ♚ac5 ♚e1
- 10) 1. ... b3 2. ♕c3 ♙b4+
- 11) 1. ... ♕g6 2. ♜xd6 e4
- 12) 1. ♕h4 (1. ♕h6? ♚g6+) 1. ... ♚g1 2. ♜h5

45: Passed pawn B

- 1) 1. h6+ ♕g6 2. h7 (2. ♕f3? ♕g5) 2. ... ♕xh7 3. ♚xf6

- 2) 1. d7+ ♖e7 2. ♜c7 ♜d2 3. d8♜+
- 3) 1. h7 a2 2. h8♜ (2. hxg8♜ a1♜) 2. ... a1♜ 3. ♜d4#
- 4) 1. c7 ♜c1 2. ♜f5+ (2. c8♜? ♜h1#) 2. ... ♖h8 (2. ... g6 3. ♜d7+) 3. c8♜+
- 5) 1. g7 ♜xa7 2. ♖e8 ♜a8+ 3. ♙d8
- 6) 1. ♜f8+ ♖h7 2. ♜f7 ♖g8 3. ♜xg7+ ♖xg7 4. e8♜
- 7) 1. ♙c6 ♜e4 2. ♙d5+ (2. ♙xe4? ♖f7) 2. ... ♖h8 3. ♙xe4
- 8) 1. e7 ♙f3 2. e4 ♙xe4 3. e8♜
- 9) 1. ... ♙xc7 2. ♖c3 ♙f4 3. ♗g4 e2
- 10) 1. ♙c4 ♜e1 2. c7 ♜e8 3. ♙a6
- 11) 1. f7 ♙g8 2. f8♙ ♙e6 3. ♗e7 ♙b3 4. ♙g7#
- 12) 1. c6 ♙b7 (1. ... e1♜ 2. c7#; 1. ... ♙a6 2. c7+ ♖c8 3. ♙e6+ ♖b7 4. c8♜+) 2. c7+ ♖a8 3. c8♜#

46: Defending against a passed pawn A

- 1) 1. ♖d7 a2 2. ♖e7 ♖f5 (2. ... a1♜ 3. ♙f6+ ♖f5 4. ♙xa1 ♖g4) 3. ♙f6
- 2) 1. ♖e3 b2 2. ♜e6+ (2. ♜b4 axb4 3. ♙e4 bxa3 4. ♙b1 ♖e5) 2. ... ♖xe6 3. ♙e4
- 3) 1. ♖xd5 b2 2. g3+ ♖xg3 3. ♙f5 ♖xh4
- 4) 1. ♜xg4 f2 2. ♜g5 f1♜ 3. ♜f5+ ♜xf5+ 4. ♖xf5
- 5) 1. ♙c6 e5 2. ♙h1 (2. ♙g2 ♖f2 3. ♙h1 g2 4. ♙xg2 ♖xg2 5. ♖d3 ♖f3)
- 6) 1. ♜xf3 e2 2. ♜e3 ♗xe3+ 3. ♖d2
- 7) 1. ♙b3 a2 2. ♙g5 met mate or anders 3. ♙xe5 (2. ♙g7+ lifts the stalemate, but after 2. ... ♖xg7 3. ♙xa2 ♖g6 4. ♖xe5 ♖g5 followed by h7-h5-h4 the last white pawn disappears)
- 8) 1. ♜xb5 a2 2. ♜b1 (2. ♜a5 ♙b4+ 3. ♖c2 ♙xa5 4. ♖b2 ♙b6 5. ♖xa2 ♙xf2) 2. ... axb1♜ 3. ♙xb1
- 9) 1. ♜e1 ♜d1 2. ♖h2 ♜xe1 (2. ... ♜d2 3. ♖g1)
- 10) 1. ♙b1 h2 2. ♗f2 (2. ♗g3 ♙xg3+ 3. ♖d7 h1♜) 2. ... ♙xf2 3. ♙e4
- 11) 1. g5 a3 2. ♙h8 a2 3. g6+ ♖xg6 (3. ... ♖g8 4. f7+) 4. f7 ♖xf7
- 12) 1. c4+ ♖a5 2. ♙f6 e1♜ 3. ♙c3+ ♜xc3+ 4. ♖xc3

47: Defending against a passed pawn B

- 1) 1. ♗d5 ♖d3 2. ♗e3 ♖xe3 3. ♙h6+
- 2) 1. ♜xa3 b2 2. ♗d1 b1♜ (2. ... b1♗ 3. ♜a2+) 3. ♜c3#
- 3) 1. ♜d3 ♙b4 2. ♜d4 (2. ♜d1? ♙a3)
- 4) 1. ♗c6 e2 2. ♗d4 e1♜ (2. ... e1♗ 3. b6) 3. ♗f3+
- 5) 1. ♗d4 g2 2. ♗e2 (2. ♗f3 ♗e5+ 3. ♗xe5 g1♜)
- 6) 1. ♙xd7 d2 2. b4+ ♖b6 3. ♙a4
- 7) 1. ♜xc5 ♜d1 2. ♜g1 (2. ♖g1 ♜d4+ 3. ♜f2 ♜d1+)
- 8) 1. ♜g4 ♗f3 2. ♜g5
- 9) 1. ♗xb7 ♙xb7 2. c6 ♙a8 (2. ... ♙a6 3. d6 ♙b5 4. d7)
- 10) 1. ♜xe5+ ♖f2 2. ♜e1
- 11) 1. ♜b8+ ♖a7 2. ♜e8
- 12) 1. g7+ ♖f7 2. ♜e7+ (forced, d1♜+ is with check) 2. ... ♖xf6 3. g8♗#

48: Mate in three A

- 1) 1. ... ♜g3+ 2. ♙xg3 ♜g1+ 3. ♖h2 hxg3
- 2) 1. ♗e7+ ♖h7 2. ♜g6+ fxg6 3. hxg6#
- 3) 1. ♜g8+ ♖f7 2. ♜e7+ ♖xg8 3. ♜f8#
- 4) 1. b8♜+ ♙xb8 2. ♗b7+ ♖c8 3. ♗e7#
- 5) 1. ... ♜d2+ 2. ♙e3 ♜d6+ 3. ♖g5 ♜xg3#
- 6) 1. ... ♜c5+ 2. b4 ♜a7+ 3. ♖b3 ♜a4#
- 7) 1. ♜xf8+ (1. ♜h8+ ♖xh8 2. ♜xf7 ♙e4+ 3. ♖a1 ♜g1+) 1. ... ♖xf8 2. ♜h8+ ♖g7 3. ♜h6#
- 8) Drawing GM Jan Smeets
- 9) Drawing GM Jan Smeets

Trapping

(4-2)	(4-3)
♘e4	♖e6
♙a4	♗a7
♙d2	♗b7
♖d5	♗a2
♗c6	♘e4
♖b4	♗g5

49: Mate in three B

1. ♖h6+ ♘e5 2. f4+ ♘d4 3. ♖f6#
1. ♖h7+ ♘f6 2. ♙b2+ ♘g5 3. h4#
1. ... ♖f1+ 2. ♘h2 ♖xh3+ 3. ♘g1 ♗d1#
1. ♗g1+ ♘f8 2. ♖h6+ (2. ♖h8+ ♙g8+ 3. ♘b1 ♙d6 (3. ... ♗c1+)) 2. ... ♘f7 3. ♖g7#
1. ♖g6+ ♘h4 2. ♖h6+ ♘g4 3. h3#
1. ♖h4+ ♘f3 2. ♖h5+ g4 3. ♖xg4#
1. ... ♖h6+ 2. ♘f6 ♖g7+ 3. ♘g5 ♖e7#
1. ♗g3+ ♘f5 2. ♖g5+ ♘e4 3. ♗g4#
1. ♘f6+ ♙xf6 2. ♗g7+ ♘f8 3. h8♖#

Where is the king mate?

(4-2)	(4-3)
♘d8	♘c8
♘a4	♘f8
♘d1	♘h8
♘e1	♘e8
♘e8	♘a5
♘h5	♘f6

50: Route planner: Mate A

1. ♖a8 ♘b5 2. ♗xb3#
1. ♖e7 ♘xg3 2. ♖h4#
1. ♗a3 ♘b1 2. ♘d2#
1. ♖h3 ♘e4 2. ♗c4#
1. ♖g3 ♘e7 2. ♖d6#
1. ♙b1 ♘xb1 2. ♖h1#
1. f8♘ ♘h5 2. ♗xh3#
1. ♖h8 ♘c3 2. ♗e2#
1. ♘b4 ♘a5 2. ♖c5#
1. f3 ♘e6 2. ♘f4#
1. ♗b1+ ♘c2 2. ♙e4#
1. ♙a2 ♘b4 2. ♗c4#

51: Route planner: Mate B

1. ♘c2 ♘c4 2. ♗b6#
1. ♗d4 ♘g5 2. ♖g6#
1. c8♘ ♘a8 2. ♙c6#
1. ♘f5 d5 2. ♖e2#
1. ♘b2 ♘a4 2. ♖a3#
1. ♗g7 ♘h2 2. ♗h7#
1. ♙c5 ♘d5 2. ♖f5#
1. f4 ♘d4 2. ♖b6#
1. ♘g2 ♘e1 2. ♖f1#

- 10) 1. ♖e2 ♘h3 2. ♖f3#
- 11) 1. ♘f4 ♘e1 2. ♖e2#
- 12) 1. c8♟ ♘xd8 2. ♖f8#

52: Preventing loss of material A

- 1) 1. ... ♖xf5 2. f3 ♟g3 (2. ... ♖c5+? 3. ♟e3) (defending through protecting)
- 2) 1. ... ♟xh6 2. ♖g6 ♟e3 (2. ... ♟f5? 3. ♖e6#) (defending through protecting)
- 3) 1. ... ♟e6 2. ♟h3 (threatens ♟xe6) 2. ... ♟g1 (defending through moving away)
- 4) 1. ... ♟xb3 2. ♟c4 ♟c5 (defending through moving away and protecting)
- 5) 1. f3 f5 2. ♟d6+ (2. ♟d6 f4+) (defending through clearing a square and an intermediate move)
- 6) 1. f3 f5 2. ♟g5 (2. ♟d6 f4+ 3. ♘c1 fxg3) (defending through counterattack)
- 7) 1. ♖hd1 b6 2. ♟e7 (defending through moving away; 2. ... ♖xe7 3. ♖xd8+)
- 8) 1. ♖c5 ♟f8 2. ♟xc6 bxc6 3. ♖xe5+ (eliminating the defence)
- 9) 1. ♖xd5 ♖h4 (The square h4 is a safe square because of 2. gxh4 ♟xh4+)
- 10) Drawing
- 11) 1. ♟a3 c4 2. bxc4 (defending through protecting; clearing a square)
- 12) 1. ♟hg3 f5 2. ♘f2 (defending through protecting; there was a threat of 2. ... f4)

53: Preventing loss of material B

- 1) 1. ♖d5 ♖e6 2. ♖d3 (defending through moving away; to a safe square, because the e-pawn is pinned)
- 2) 1. ♖d1 b5 2. ♟d7 ♖c7 2. ♟b6 (eliminating the defence and moving away)
- 3) 1. ♟e5 ♟d6 (1. ... ♟d8 2. ♟xd3 ♟xc7+ 3. e5) (pin the attacker and exchange)
- 4) 1. ... ♖b3 2. Th8+ (2. ♖xf6 ♖b1#) 2. ... ♖xh8 (2. ... ♘xh8 3. ♖xf6+) 3. ♖xh8+ ♘xh8 4. cxb3 (defending through counterattack)
- 5) 1. ... ♖a8 2. ♟a6 ♟b7 3. ♖xa8 (3. ♟xb7 ♖xe8) 3. ... ♟xa8 (defending through moving away and protecting)
- 6) 1. ... ♟a5 2. ♟b3 d5 (prevent eliminating the defence; threat 3. ♟xc6)
- 7) 1. ♘g5 ♖f1 2. ♖dd1 (defending through protecting)
- 8) 1. ♟xb2 ♟xa4 2. ♟d4 (indirect protection because) 1. ... ♘xa5 (2. ... ♟d1 3. ♘b6) 3. ♟c3#
- 9) 1. ♟h3 (1. g4? ♟h4) 1. ... ♟h4 2. ♘d2 ♟xg2 (2. ... ♟f5 3. g4) 3. ♟e2#
- 10) 1. fxg4 ♖f7 (defending through protecting, otherwise the discovered attack 2. ♟f6+)
- 11) 1. ... ♖xc2 2. ♟e2 (2. ♖xc2? ♖xc2+ 3. ♘a1 ♖xd1+) (defending through protecting thanks to the pin on the c-file)
- 12) 1. ... ♟xh3 2. ♖d5 (2. ♘xh3? ♖h5+ 3. ♘g2 ♖xd1) 2. ... ♖c4 3. ♘h3 (defending by first eliminating the double attack on h5)

54: Test: Mix C

- 1) 1. ♘b6 ♟xa2 2. ♟d2+ ♘c4 3. g8♖+ (passed pawn)
- 2) 1. ♘a4 ♟xa3 2. ♟b4 (transition to a won pawn endgame)
- 3) 1. b7 ♖xb7 2. ♘xb7 (avoiding stalemate)
- 4) 1. ♟f6 ♖d8 2. ♖xh6+ ♖xh6 3. ♟xh6# (mate in two)
- 5) 1. ... ♟b4 2. ♘c2 d4 (2. ... ♟xc3? 3. bxc3) 3. ♟e4 ♟xb5 (eliminating the defence: chasing away+material)
- 6) 1. ♖d7+ ♖5f7 2. ♟h5 ♖xd7 3. ♖xd7+(double attack)
- 7) 1. ... ♟xf6 2. ♟xc4 ♟d5+ (2. ... ♟e4+ 3. dxe4) (discovered attack)
- 8) 1. ♖xe4 ♖e6 2. ♖d8+ ♖xd8 3. ♖xe6 (capture an unprotected piece is correct thanks to a counter-attack)
- 9) 1. ♟xd6 ♖xd5 2. ♟e8+ (eliminating the defence: luring away+material)
- 10) 1. ♖xc5 ♖c4 2. ♖c7 (creating a passed pawn)
- 11) 1. ♟e5 ♟xd4 2. ♖d1 (2. cxd4 ♖xc1) (pin)
- 12) 1. ♖xg5 h6 2. ♖h4 (2. ♖g6 ♟f4+) (2. ♖g4 ♟e3+) (2. ♖h5 ♟f4+) (defending against a threat)

55: Test: Mix D

- 1) 1. ♖e2 b5 2. ♗f3
- 2) 1. f7+ ♕h8 2. ♖c8 ♖b8 (2. ... ♖xc8 3. f8♗+) 3. ♖xb8 ♖xb8 (defending against a loss of material)
- 3) 1. ... ♖ee8 2. ♙d6+ ♕g8 (2. ... ♗e7 3. ♖h8#) 3. ♙h7+ ♕h8 (getting out of check)
- 4) 1. ♗b3 ♗d1 2. ♗f5 (2. ♗e4 ♗h5) (pin)
- 5) 1. ♖c8+ ♖f8 2. ♖f1 (2. b8♗? ♗xb8) 1. ... ♖xc8 (2... ♗xb7 3. ♖xf8#) 3. bxc8♗# (mate in two)
- 6) 1. ♗a4+ ♗c6 2. 0-0-0 (2. ♖d1 ♙xc3+ (pin))
- 7) 1. ♖g1 ♗b2 2. ♗c6 ♖xe7 3. ♗a8+ (passed pawn)
- 8) 1. ♖h5 ♗xg4 2. ♖g5 (double attack with two pieces)
- 9) 1. ♗c5 ♗b5 2. ♗a6+ (2. ♗e6 ♖c2 or 2. ... ♖e7) (double attack: knight)

Route planner

(4-2) (4-3)

♙a7-b6-a5-c3	♗b5-d4-c2-e1
♙a7-e3-d2-c3	♗f6-h7-g5-f3
♙a7-b8-d6-b4	♗c3-d5-f6-g8
♙d7-e8-g6-b1	♗g1-e2-f4-h5
♙d7-e6-a2-b1	♗e4-g5-f7-d8
♙f3-e2-c4-f7	♗b4-d3-f2-h3

56: Test: Mix E

- 1) 1. ♗h4 ♙xf5 2. ♗f3 (2. ♗f2? ♙xc2+ 3. ♕xc2 ♗xf2) (2. ♗f1 ♙xc2+ 3. ♕xc2 ♗xf1) (pin)
- 2) 1. ♗xg7+ ♕h4 2. ♗c7 (creating a passed pawn)
- 3) 1. b8♗ ♗c3+ 2. ♕a1 (2. ♕a3 ♙e7+) (getting out of check: preventing mate)
- 4) 1. ♙b3 ♗xh1 2. ♗h4 (2. ♗c4 ♗a8; 2. ♗a7 ♗c6) (double attack: queen)
- 5) 1. ♗xb5 ♖xa2 2. ♗d5 (2. ♗c4? ♖c2) (double attack: queen)
- 6) 1. ♗xh7 ♖h8 2. f4 (defending against a loss of material)
- 7) 1. ♙h6+ ♕g8 2. ♖g6+ (oder 2. ♗e7+ ♗xe7 3. ♙xf7#) 2. ... fxg6 (2. ... hxg6 3. ♗f6#) 3. ♗f6# or 3. ♗e7# (mate by access and square clearance)
- 8) 1. ... ♖fe8 2. ♗c3 ♕f8 (2. ... e5 3. ♖xe5 ♖xe5 4. ♗xe5) (defending against mate by moving away)
- 9) 1. ♗xh6+ ♕g8 2. f4 ♖xg4 3. fxe5 (eliminating the defence: chasing away+mate)
- 10) 1. cxd4 ♙xd4+ 2. ♗e3 (getting out of check: preventing loss of material)
- 11) 1. ♖xd7+ ♕c6 2. ♖d5 (2. ♖xe7? ♙c5+) 2. ... ♕xd5; 2. ... a5+ 3. ♕c4; 2. ... ♙c5+ 3. ♕c4) 3. ♙g2# (defending against a loss of material)
- 12) 1. ♗g6 ♖d8 2. ♗xc8+ (2. ♗f4+ ♕a8 3. ♗xe7 ♖xd1+ 4. ♗c1 ♖xc1+ 5. ♕xc1 ♕b8) 2. ... ♕xc8 (2. ... ♖xc8 3. ♗xe7) 3. ♗xe7+ (intermediate move)