

SAT Practice Test #8 Answer Key

CRITICAL READING								
Section 4			Section 6			Section 9		
Multiple-Choice Questions			Multiple-Choice Questions			Multiple-Choice Questions		
COR. ANS.	DIFF. LEV.		COR. ANS.	DIFF. LEV.		COR. ANS.	DIFF. LEV.	
1.	A	E	1.	C	E	1.	C	E
2.	C	M	2.	C	M	2.	E	M
3.	A	M	3.	C	M	3.	E	M
4.	D	M	4.	E	M	4.	D	M
5.	C	M	5.	A	M	5.	D	M
6.	E	M	6.	D	M	6.	C	H
7.	A	H	7.	D	E	7.	A	M
8.	D	H	8.	B	M	8.	B	E
9.	C	E	9.	C	M	9.	D	M
10.	D	M	10.	D	M	10.	C	M
11.	A	H	11.	D	M	11.	A	M
12.	E	E	12.	D	M	12.	D	M
13.	B	E	13.	B	H	13.	C	E
14.	E	M	14.	A	M	14.	E	M
15.	D	E	15.	B	M	15.	D	M
16.	C	M	16.	A	H	16.	E	H
17.	A	M	17.	B	H	17.	E	M
18.	B	M	18.	C	E	18.	C	M
19.	D	M	19.	C	H	19.	C	M
20.	C	M	20.	E	M			
21.	B	M	21.	B	M			
22.	D	M	22.	B	H			
23.	B	M	23.	E	E			
24.	A	M	24.	B	M			
no. correct			no. correct			no. correct		
no. incorrect			no. incorrect			no. incorrect		

MATH								
Section 2			Section 5			Section 8		
Multiple-Choice Questions			Multiple-Choice Questions			Multiple-Choice Questions		
COR. ANS.	DIFF. LEV.		COR. ANS.	DIFF. LEV.		COR. ANS.	DIFF. LEV.	
1.	E	E	1.	B	E	1.	A	E
2.	E	E	2.	E	E	2.	E	E
3.	B	E	3.	C	E	3.	C	E
4.	B	E	4.	D	E	4.	E	E
5.	D	M	5.	B	E	5.	C	E
6.	D	M	6.	A	M	6.	D	E
7.	C	M	7.	C	M	7.	B	M
8.	A	H	8.	C	M	8.	B	M
			9.	D	M	9.	B	M
			10.	E	M	10.	C	M
			11.	B	M	11.	A	M
			12.	C	M	12.	C	M
			13.	C	M	13.	D	M
			14.	D	H	14.	E	M
			15.	A	M	15.	C	H
			16.	A	M	16.	E	H
			17.	D	H			
			18.	A	H			
			19.	E	M			
			20.	E	H			
no. correct			no. correct			no. correct		
no. incorrect			no. incorrect			no. incorrect		

Section 2		
Student-Produced Response Questions		
COR. ANS.	DIFF. LEV.	
9.	13/2, 6.5	E
10.	10	E
11.	45	M
12.	105	M
13.	12.5, 25/2	M
14.	3/50, .06	M
15.	192	H
16.	8/7, 1.14	H
17.	$0/1 < x < 3/8, 0 < x < .375$	H
18.	1350	H

no. correct
(9-18)

NOTE: Difficulty levels are E (easy), M (medium), and H (hard).

WRITING				
Section 1	Section 3		Section 10	
Essay	Multiple-Choice Questions		Multiple-Choice Questions	
	COR. ANS.	DIFF. LEV.	COR. ANS.	DIFF. LEV.
	1. C	E	1. B	E
	2. D	E	2. A	E
	3. A	E	3. B	E
	4. D	E	4. A	E
	5. E	E	5. E	E
	6. D	E	6. E	M
	7. B	E	7. D	E
	8. C	E	8. A	E
	9. C	E	9. C	E
	10. B	E	10. A	E
	11. D	H	11. E	M
	12. B	E	12. D	M
	13. B	E	13. E	M
	14. E	E	14. A	H
	15. D	E		
	16. A	E		
	17. D	E		
	18. D	E		
	19. C	M		
	20. A	E		
	21. A	M		
	22. A	M		
	23. E	M		
	24. D	M		
	25. A	E		
	26. C	M		
	27. E	H		
	28. A	M		
	29. E	M		
	30. C	M		
	31. D	E		
	32. D	M		
	33. B	M		
	34. E	M		
	35. D	M		
	no. correct		no. correct	
	no. incorrect		no. incorrect	

* To score your essay, use the SAT scoring guide in Chapter 9 and the free sample essays available online at www.collegeboard.com/satonlinecourse. On this practice test, your essay score should range from 0 to 6. (Keep in mind that on the actual SAT, your essay will be read by two readers and you will receive a score of 0 to 12 on your score report.)

NOTE: Difficulty levels are E (easy), M (medium), and H (hard).

The SAT Scoring Process

Scoring. The computer compares the circle filled in for each question with the correct response. Each correct answer receives one point; omitted questions do not affect your score. For each wrong answer to a multiple-choice question, one-fourth of a point is subtracted to correct for random guessing. The SAT critical reading section has 67 questions. If, for example, a student has 44 right, 20 wrong, and 3 omitted, the resulting raw score is determined as follows:

$$44 \text{ right} - \frac{20 \text{ wrong}}{4} = 44 - 5 = 39 \text{ raw score points}$$

Obtaining raw scores frequently involves the rounding of fractions to the nearest whole number. For example, a raw score of 39.25 is rounded to 39, the nearest whole number. A raw score of 39.50 is rounded upward to 40. **For the WRITING SECTION**, your essay raw score counts approximately 30% and your multiple-choice raw score counts approximately 70%.

Converting to reported scaled score. Raw scores are then placed on the College Board scale of 200 to 800 through a process that adjusts scores to account for minor differences in difficulty among different versions of the test. This process, known as equating, is performed so that a student's reported score is not affected by the version of the test taken or by the abilities of the group with whom the student takes the test. As a result of placing SAT scores on the College Board scale, scores earned by students at different times can be compared. For example, an SAT critical reading score of 400 on a test taken at one administration indicates the same level of developed critical reading ability as a 400 score obtained on a different version of the test taken at another time.

Note: Since this test has not been previously administered, score ranges are provided for each possible raw score.

How to Score Practice Test #8

SAT Critical Reading Sections 4, 6, and 9

Step A: Count the number of correct answers for *Section 4* and record the number in the space provided on the Scoring Worksheet. Then do the same for the incorrect answers. (Do not count omitted answers.)

Step B: Count the number of correct answers and the number of incorrect answers for *Section 6* and record the numbers in the spaces provided on the Scoring Worksheet. (Do not count omitted answers.)

Step C: Count the number of correct answers and the number of incorrect answers for *Section 9* and record the numbers in the spaces provided on the Scoring Worksheet. (Do not count omitted answers.)

Step D: Total the number of correct responses. Total the number of incorrect responses. Enter the resulting figures on the Scoring Worksheet. To determine A, use the formula:

$$\text{Number correct} - \frac{\text{Number incorrect}}{4} = A$$

Step E: To obtain B, your Rounded Critical Reading Raw Score, round A to the nearest whole number. (For example, any number from 44.50 to 45.49 rounds to 45.) Enter the resulting figure on the Scoring Worksheet.

Step F: To find your Critical Reading Scaled Score Range, look up the Total Rounded Raw Score you obtained in step E in the Critical Reading Conversion Table (Table 1). Enter this range in the box on the Scoring Worksheet.

SAT Math Sections 2, 5, and 8

Step A: Count the number of correct answers and the number of incorrect answers for the multiple-choice questions (*questions 1 through 8*) in *Section 2* and record the numbers in the spaces provided on the Scoring Worksheet. (Do not count omitted answers.)

Step B: Count the number of correct answers for the student-produced response questions (*questions 9 through 18*) in *Section 2* and record the number in the space provided on the Scoring Worksheet.

Step C: Count the number of correct answers and the number of incorrect answers for *Section 5* and record the numbers in the spaces provided on the Scoring Worksheet. (Do not count omitted answers.)

Step D: Count the number of correct answers and the number of incorrect answers for *Section 8* and record the numbers in the spaces provided on the Scoring Worksheet. (Do not count omitted answers.)

Step E: Total the number of correct responses. Total the number of incorrect responses. Enter the resulting figures on the Scoring Worksheet. To determine A, use the formula:

$$\text{Number correct} - \frac{\text{Number incorrect}}{4} = A$$

Step F: To obtain B, your Math Rounded Raw Score, round A to the nearest whole number. (For example, any number from 44.50 to 45.49 rounds to 45.) Enter the resulting figure on the Scoring Worksheet.

Step G: To find your Math Scaled Score Range, use the Math Conversion Table (Table 2) to look up the Total Rounded Raw Score you obtained in step F. Enter this range in the box on the Scoring Worksheet.

SAT Writing Sections 1, 3, and 10

Step A: Enter your Essay Score for *Section 1* in the box on the Scoring Worksheet. (On this practice test, your essay score should range from 0 to 6. Keep in mind that on the actual SAT, two readers will read your essay and you will receive a total score of 0 to 12 on your score report.)

Step B: Count the number of correct answers and the number of incorrect answers for *Section 3* and record the numbers in the spaces provided on the Scoring Worksheet. (Do not count omitted answers.)

Step C: Count the number of correct answers and the number of incorrect answers for *Section 10* and record the numbers in the spaces provided on the Scoring Worksheet. (Do not count omitted answers.)

Step D: Total the number of correct responses. Total the number of incorrect responses. Enter the resulting figure on the Scoring Worksheet. To determine A, use the formula:

$$\text{Number correct} - \frac{\text{Number incorrect}}{4} = A$$

Step E: To obtain B, your Writing Multiple-Choice (MC) Rounded Raw Score, round A to the nearest whole number. (For example, any number from 44.50 to 45.49 round to 45.) Enter the resulting figure on the Scoring Worksheet.

Step F: To find your overall Writing Scaled Score Range, use Table 3. Look up the Total MC Rounded Raw Score you obtained in Step E in the left side of Table 3 and the Essay Score entered in Step A across the top of the table. Enter this range in the box on the Scoring Worksheet.

Step G: To find your Writing MC Subscore Range, look up the Total MC Rounded Raw Score you obtained in Step E on the Writing Multiple-Choice Conversion Table (Table 4). Enter this range in the box on the Scoring Worksheet.

Note: For the **WRITING SECTION**, your Essay Raw Score counts approximately 30% and your Multiple-Choice Raw Score counts approximately 70%.

SAT Practice Test #8 Scoring Worksheet

SAT Critical Reading Section

A. Section 4:	$\frac{\text{no. correct}}{\quad}$	$\frac{\text{no. incorrect}}{\quad}$	
	+	+	
B. Section 6:	$\frac{\text{no. correct}}{\quad}$	$\frac{\text{no. incorrect}}{\quad}$	
	+	+	
C. Section 9:	$\frac{\text{no. correct}}{\quad}$	$\frac{\text{no. incorrect}}{\quad}$	
	=	=	
D. Total Unrounded Raw Score	$\frac{\text{no. correct}}{\quad}$	$-\left(\frac{\text{no. incorrect}}{\quad} \div 4\right) =$	$\frac{\quad}{A}$
E. Total Rounded Raw Score (Rounded to nearest whole number)			$\frac{\quad}{B}$
F. Critical Reading Scaled Score Range (See Table 1)			<div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> — </div> <p style="text-align: center; margin-top: 5px;">Critical Reading Scaled Score Range</p>

SAT Math Section

A. Section 2: Questions 1-8	$\frac{\text{no. correct}}{\quad}$	$\frac{\text{no. incorrect}}{\quad}$	
	+		
B. Section 2: Questions 9-18	$\frac{\text{no. correct}}{\quad}$		
	+	+	
C. Section 5:	$\frac{\text{no. correct}}{\quad}$	$\frac{\text{no. incorrect}}{\quad}$	
	+	+	
D. Section 8:	$\frac{\text{no. correct}}{\quad}$	$\frac{\text{no. incorrect}}{\quad}$	
	=	=	
E. Total Unrounded Raw Score	$\frac{\text{no. correct}}{\quad}$	$-\left(\frac{\text{no. incorrect}}{\quad} \div 4\right) =$	$\frac{\quad}{A}$
F. Total Rounded Raw Score (Rounded to nearest whole number)			$\frac{\quad}{B}$
G. Math Scaled Score Range (See Table 2)			<div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> — </div> <p style="text-align: center; margin-top: 5px;">Math Scaled Score Range</p>

SAT Writing Section

A. Section 1:

Essay Score

B. Section 3:

$$\begin{array}{r} \frac{\text{no. correct}}{\text{no. correct}} \\ + \\ \frac{\text{no. correct}}{\text{no. correct}} \\ = \end{array} \quad \begin{array}{r} \frac{\text{no. incorrect}}{\text{no. incorrect}} \\ + \\ \frac{\text{no. incorrect}}{\text{no. incorrect}} \\ = \end{array} \quad - \quad \left(\frac{\text{no. incorrect}}{\text{no. incorrect}} \div 4 \right) = \frac{\text{no. correct}}{\text{no. incorrect}} \quad A$$

C. Section 10:

D. Total MC Unrounded Raw Score

E. Total MC Rounded Raw Score
(Rounded to nearest whole number)

B

F. Writing Scaled Score Range
(See Table 3)

Writing Scaled
Score Range

G. Writing MC Subscore Range
(See Table 4)

Writing MC
Subscore Range

**Table 1. Critical Reading
Conversion Table**

Raw Score	Scaled Score	Raw Score	Scaled Score
67	800	30	470-530
66	770-800	29	470-530
65	740-800	28	460-520
64	720-800	27	450-510
63	700-800	26	450-510
62	690-790	25	440-500
61	670-770	24	440-500
60	660-760	23	430-490
59	660-740	22	420-480
58	650-730	21	420-480
57	640-720	20	410-470
56	630-710	19	400-460
55	630-710	18	400-460
54	620-700	17	390-450
53	610-690	16	380-440
52	600-680	15	380-440
51	610-670	14	370-430
50	600-660	13	360-420
49	590-650	12	350-410
48	580-640	11	350-410
47	580-640	10	340-400
46	570-630	9	330-390
45	560-620	8	310-390
44	560-620	7	300-380
43	550-610	6	290-370
42	550-610	5	270-370
41	540-600	4	260-360
40	530-590	3	250-350
39	530-590	2	230-330
38	520-580	1	220-320
37	510-570	0	200-290
36	510-570	-1	200-290
35	500-560	-2	200-270
34	500-560	-3	200-250
33	490-550	-4	200-230
32	480-540	-5	200-210
31	480-540	-6 and below	200

Table 3. Writing Conversion Table

MC Raw Score	Essay Score						
	0	1	2	3	4	5	6
49	650-690	670-720	690-740	710-770	750-800	780-800	800
48	630-690	640-720	660-740	690-770	720-800	760-800	780-800
47	600-690	620-720	640-740	660-770	700-800	730-800	760-800
46	580-690	600-720	620-740	650-770	680-800	710-800	740-800
45	570-690	580-720	600-740	630-770	670-800	700-800	730-800
44	560-680	570-710	590-730	620-760	660-790	690-800	720-800
43	540-660	560-690	580-710	610-740	640-780	670-800	700-800
42	530-660	550-690	570-700	600-730	630-770	660-800	690-800
41	530-650	540-680	560-700	590-720	620-760	660-790	680-800
40	520-640	530-670	550-690	580-710	620-750	650-780	680-800
39	510-630	520-660	540-680	570-710	610-740	640-770	670-800
38	500-620	520-650	540-670	560-700	600-730	630-770	660-790
37	490-610	510-640	530-660	560-690	590-720	620-760	650-780
36	480-600	500-630	520-650	550-680	580-720	610-750	640-770
35	480-590	490-620	510-640	540-670	570-710	610-740	640-770
34	470-590	480-620	500-630	530-660	570-700	600-730	630-760
33	460-580	470-610	490-630	520-650	560-690	590-720	620-750
32	450-570	470-600	490-620	510-640	550-680	580-710	610-740
31	440-560	460-590	480-610	510-640	540-670	570-700	600-730
30	430-550	450-580	470-600	500-630	530-660	560-700	590-720
29	430-540	440-570	460-590	490-620	520-650	560-690	590-710
28	420-530	430-560	450-580	480-610	520-650	550-680	580-700
27	410-520	420-550	440-570	470-600	510-640	540-670	570-700
26	400-520	420-550	430-560	460-590	500-630	530-660	560-690
25	390-510	410-540	430-560	450-580	490-620	520-650	550-680
24	380-500	400-530	420-550	450-570	480-610	510-640	540-670
23	370-490	390-520	410-540	440-570	470-600	500-630	530-660
22	370-480	380-510	400-530	430-560	460-590	500-630	520-650
21	370-480	380-510	400-530	430-560	460-590	500-630	520-650
20	360-470	370-500	390-520	420-550	460-580	490-620	520-640
19	350-460	360-490	380-510	410-540	450-580	480-610	510-630
18	340-450	350-480	370-500	400-530	440-570	470-600	500-630
17	330-450	350-480	360-490	390-520	430-560	460-590	490-620
16	320-440	340-470	360-490	390-510	420-550	450-580	480-610
15	310-430	330-460	350-480	380-510	410-540	440-570	470-600
14	300-420	320-450	340-470	370-500	400-530	430-560	460-590
13	300-410	310-440	330-460	360-490	390-520	430-560	450-580
12	290-400	300-430	320-450	350-480	390-510	420-550	450-570
11	280-390	290-420	310-440	340-470	380-510	410-540	440-570
10	270-390	280-420	300-430	330-460	370-500	400-530	430-560
9	260-380	280-410	290-430	320-450	360-490	390-520	420-550
8	250-370	270-400	290-420	320-450	350-480	380-510	410-540
7	240-360	260-390	280-410	310-440	340-470	370-510	400-530
6	230-350	250-380	270-400	300-430	330-460	360-500	390-520
5	230-340	240-370	260-390	290-420	320-460	360-490	380-520
4	220-340	230-370	250-380	280-410	320-450	350-480	380-510
3	210-330	220-360	240-380	270-400	310-440	340-470	370-500
2	200-320	210-350	230-370	260-400	300-430	330-460	360-490
1	200-300	200-330	220-350	250-380	280-410	310-450	340-470
0	200-290	200-320	210-340	240-370	270-410	300-440	330-470
-1	200-280	200-310	200-330	220-350	250-390	290-420	310-450
-2	200-260	200-290	200-310	200-340	240-370	270-410	300-430
-3	200-240	200-270	200-290	200-320	240-360	270-390	300-420
-4	200-230	200-260	200-280	200-300	240-340	270-370	300-400
-5	200	200-230	200-250	200-280	240-320	270-350	300-370
-6	200	200-220	200-240	200-270	240-310	270-340	300-370
-7	200	200-220	200-230	200-260	240-300	270-330	300-360
-8	200	200-210	200-230	200-250	240-290	270-320	300-350
-9	200	200-210	200-230	200-250	240-290	270-320	300-350
-10	200	200-210	200-230	200-250	240-290	270-320	300-350
-11	200	200-210	200-230	200-250	240-290	270-320	300-350
-12	200	200-210	200-230	200-250	240-290	270-320	300-350

Table 3. Writing Conversion Table

MC Raw Score	Essay Score						
	0	1	2	3	4	5	6
49	650-690	670-720	690-740	710-770	750-800	780-800	800
48	630-690	640-720	660-740	690-770	720-800	760-800	780-800
47	600-690	620-720	640-740	660-770	700-800	730-800	760-800
46	580-690	600-720	620-740	650-770	680-800	710-800	740-800
45	570-690	580-720	600-740	630-770	670-800	700-800	730-800
44	560-680	570-710	590-730	620-760	660-790	690-800	720-800
43	540-660	560-690	580-710	610-740	640-780	670-800	700-800
42	530-660	550-690	570-700	600-730	630-770	660-800	690-800
41	530-650	540-680	560-700	590-720	620-760	660-790	680-800
40	520-640	530-670	550-690	580-710	620-750	650-780	680-800
39	510-630	520-660	540-680	570-710	610-740	640-770	670-800
38	500-620	520-650	540-670	560-700	600-730	630-770	660-790
37	490-610	510-640	530-660	560-690	590-720	620-760	650-780
36	480-600	500-630	520-650	550-680	580-720	610-750	640-770
35	480-590	490-620	510-640	540-670	570-710	610-740	640-770
34	470-590	480-620	500-630	530-660	570-700	600-730	630-760
33	460-580	470-610	490-630	520-650	560-690	590-720	620-750
32	450-570	470-600	490-620	510-640	550-680	580-710	610-740
31	440-560	460-590	480-610	510-640	540-670	570-700	600-730
30	430-550	450-580	470-600	500-630	530-660	560-700	590-720
29	430-540	440-570	460-590	490-620	520-650	560-690	590-710
28	420-530	430-560	450-580	480-610	520-650	550-680	580-700
27	410-520	420-550	440-570	470-600	510-640	540-670	570-700
26	400-520	420-550	430-560	460-590	500-630	530-660	560-690
25	390-510	410-540	430-560	450-580	490-620	520-650	550-680
24	380-500	400-530	420-550	450-570	480-610	510-640	540-670
23	370-490	390-520	410-540	440-570	470-600	500-630	530-660
22	370-480	380-510	400-530	430-560	460-590	500-630	520-650
21	370-480	380-510	400-530	430-560	460-590	500-630	520-650
20	360-470	370-500	390-520	420-550	460-580	490-620	520-640
19	350-460	360-490	380-510	410-540	450-580	480-610	510-630
18	340-450	350-480	370-500	400-530	440-570	470-600	500-630
17	330-450	350-480	360-490	390-520	430-560	460-590	490-620
16	320-440	340-470	360-490	390-510	420-550	450-580	480-610
15	310-430	330-460	350-480	380-510	410-540	440-570	470-600
14	300-420	320-450	340-470	370-500	400-530	430-560	460-590
13	300-410	310-440	330-460	360-490	390-520	430-560	450-580
12	290-400	300-430	320-450	350-480	390-510	420-550	450-570
11	280-390	290-420	310-440	340-470	380-510	410-540	440-570
10	270-390	280-420	300-430	330-460	370-500	400-530	430-560
9	260-380	280-410	290-430	320-450	360-490	390-520	420-550
8	250-370	270-400	290-420	320-450	350-480	380-510	410-540
7	240-360	260-390	280-410	310-440	340-470	370-510	400-530
6	230-350	250-380	270-400	300-430	330-460	360-500	390-520
5	230-340	240-370	260-390	290-420	320-460	360-490	380-520
4	220-340	230-370	250-380	280-410	320-450	350-480	380-510
3	210-330	220-360	240-380	270-400	310-440	340-470	370-500
2	200-320	210-350	230-370	260-400	300-430	330-460	360-490
1	200-300	200-330	220-350	250-380	280-410	310-450	340-470
0	200-290	200-320	210-340	240-370	270-410	300-440	330-470
-1	200-280	200-310	200-330	220-350	250-390	290-420	310-450
-2	200-260	200-290	200-310	200-340	240-370	270-410	300-430
-3	200-240	200-270	200-290	200-320	240-360	270-390	300-420
-4	200-230	200-260	200-280	200-300	240-340	270-370	300-400
-5	200	200-230	200-250	200-280	240-320	270-350	300-370
-6	200	200-220	200-240	200-270	240-310	270-340	300-370
-7	200	200-220	200-230	200-260	240-300	270-330	300-360
-8	200	200-210	200-230	200-250	240-290	270-320	300-350
-9	200	200-210	200-230	200-250	240-290	270-320	300-350
-10	200	200-210	200-230	200-250	240-290	270-320	300-350
-11	200	200-210	200-230	200-250	240-290	270-320	300-350
-12	200	200-210	200-230	200-250	240-290	270-320	300-350

**Table 4. Writing Multiple-Choice
Conversion Table**

Raw Score	Scaled Score	Raw Score	Scaled Score
49	78-80	21	46-56
48	77-80	20	45-55
47	74-80	19	44-54
46	72-80	18	43-53
45	70-80	17	42-52
44	69-79	16	41-51
43	67-77	15	40-50
42	66-76	14	39-49
41	65-75	13	38-48
40	64-74	12	37-47
39	63-73	11	36-46
38	62-72	10	35-45
37	61-71	9	34-44
36	60-70	8	33-43
35	59-69	7	32-42
34	58-68	6	31-41
33	57-67	5	30-40
32	56-66	4	29-39
31	55-65	3	28-38
30	54-64	2	27-37
29	53-63	1	25-35
28	52-62	0	24-34
27	51-61	-1	22-32
26	50-60	-2	20-30
25	49-59	-3	20-28
24	48-58	-4	20-26
23	47-57	-5	20-23
22	46-56	-6 and below	20-22