

I 수와 연산

1. 소인수분해

필수 기출 18~21쪽

1 ④	2 ④	3 29	4 ②, ③	5 ⑤	6 7
7 ③	8 ④	9 ④	10 12	11 ④	12 ②
13 ④	14 ①	15 32	16 ⑤	17 15	18 ③
19 ④	20 ③	21 1, 4, 25, 100	22 ③	23 ②	
24 ②	25 ⑤	26 ③	27 12		

Best 쌍둥이 22쪽

1 1	2 ㄴ, ㄷ	3 ⑤	4 2	5 18	6 10
7 ①, ⑤	8 ⑤	9 4			

100점 완성 23쪽

1-1 7	1-2 ①	2-1 8	2-2 7
3-1 15	3-2 28	4-1 1, 4, 9, 16, 25, 36, 49	
4-2 3			

서술형 완성 24~25쪽

1 11	2 (1) $2 \times 3^3 \times 7$ (2) 7	3 90	4 32																
5 (1) $2^2 \times 7^2$ (2)	<table> <tr> <th>×</th><th>1</th><th>2</th><th>2^2</th></tr> <tr> <td>1</td><td>1</td><td>2</td><td>4</td></tr> <tr> <td>7</td><td>7</td><td>14</td><td>28</td></tr> <tr> <td>7^2</td><td>49</td><td>98</td><td>196</td></tr> </table>	×	1	2	2^2	1	1	2	4	7	7	14	28	7^2	49	98	196		
×	1	2	2^2																
1	1	2	4																
7	7	14	28																
7^2	49	98	196																
(3) 1, 2, 4, 7, 14, 28, 49, 98, 196																			
6 177	7 4	8 12	9 375 10 48																

실전 테스트 26~28쪽

1 ②	2 ②	3 ④	4 ③	5 ④	6 ④
7 ⑤	8 ①	9 ⑤	10 ②	11 ③	12 ③
13 ④	14 ①	15 ④	16 ②	17 1731	18 39
19 3	20 5				

2. 최대공약수와 최소공배수

필수 기출 30~35쪽

1 ②	2 ③	3 ①	4 ①, ③	5 45	6 ④
7 6	8 ⑤	9 ②	10 37	11 ③, ⑤	
12 ④	13 ③	14 ③	15 9	16 ③	17 ②
18 6	19 4	20 ③	21 ②	22 75	23 ⑤
24 ⑤	25 105	26 ②	27 ③	28 6	29 ③
30 ④	31 ①	32 12	33 ⑤	34 ①	35 ②
36 ②	37 $\frac{55}{3}$				

Best 쌍둥이 36~37쪽

1 ①	2 ④	3 8	4 ②, ③	5 ④	6 ④, ⑤
7 ⑤	8 11	9 ③	10 14	11 15	12 182
13 ③					

100점 완성 38~39쪽

1-1 ④	1-2 ③	2-1 ③	2-2 ①
3-1 71	3-2 ⑤	4-1 40	4-2 14
5-1 60, 120, 180, 360	5-2 ③		

서술형 완성 40~41쪽

1 최대공약수: 6, 최소공배수: 180	2 14	3 22
4 (1) 14 (2) 28, 42, 70	5 135	6 40
7 (1) 42, 63, 105 (2) 7, 21	8 173	9 $A=18, B=60$
10 6		

실전 테스트 42~44쪽

1 ②	2 ④	3 ④	4 ③	5 ①, ⑤	6 ③
7 ④	8 ⑤	9 ③	10 ⑤	11 ④	12 ②, ④
13 ①	14 ③	15 ①	16 ②	17 ⑤	18 ③
19 6	20 120	21 900	22 122		

3. 정수와 유리수

필수 기출 46~51쪽

1 ④	2 ④	3 ③	4 3	5 ③, ⑤	6 ②, ⑤
7 5	8 ④	9 ④	10 ⑤	11 ③	12 ⑤
13 $a=-1, b=2$	14 ②	15 $a=-6, b=2$			
16 $a=\frac{7}{2}, b=-3, c=\frac{5}{2}$	17 ①, ④				
18 -9, 9	19 -3.9, $-\frac{9}{5}, \frac{3}{2}, 1, 0$	20 ②			
21 ⑤	22 ③	23 -5, -4, -3, 4, 5	24 ③		
25 ⑤	26 0	27 ④	28 ①	29 ①	30 ③
31 ③	32 -4	33 ③	34 ④		

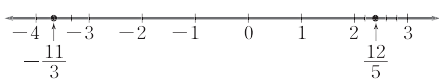
Best 쌍둥이 52~53쪽

1 ③	2 9	3 ②	4 ⑤	5 ③	6 ④
7 -4	8 ②	9 ③	10 ①, ⑤	11 ⑤	
12 ②					

100점 완성 54~55쪽

1-1 9	1-2 6	2-1 -5	2-2 3, 5
3-1 6	3-2 ③	4-1 1.5	4-2 D
5-1 ③	5-2 b, c, a		

서술형 완성 56~57쪽

1 (1) $-\frac{10}{2}, -4$ (2) $+\frac{2}{3}, 6, +2$ (3) $+\frac{2}{3}, -2.5$	
2 (1) 	
(2) -3, -2, -1, 0, 1, 2	
3 A: 10, B: -4 4 1 5 $\frac{12}{4}, 1$ 6 -5, 5	
7 (1) $x \geq 3$ (2) $x < 2$ (3) $-1 < x \leq 5$ 8 9 9 -7	
10 $\frac{8}{3}$	

실전 테스트 58~60쪽

1 ③	2 ①	3 ②	4 ④	5 ⑤	6 ③
7 ①	8 ①, ④	9 ①	10 ②	11 ⑤	12 ②
13 ⑤	14 ②	15 ②	16 ③		
17 A: $-\frac{7}{2}, B: -1, C: -\frac{1}{4}, D: 1, E: \frac{8}{5}, 2$	18 $-\frac{4}{3}$				
19 4	20 7				

4. 정수와 유리수의 계산

필수 기출 62~69쪽

1 ⑤	2 ㉠ 교환법칙, ㉡ 결합법칙	3 ③	4 ②
5 ⑤	6 $\frac{23}{15}$	7 $-\frac{1}{2}$	8 ①
9 3	10 ③		
11 ①	12 ④	13 ②	14 ③
15 ⑤	16 ④		
17 $\frac{31}{2}m$	18 7	19 ①	20 ①
21 $-\frac{2}{3}$			
22 ①	23 ③	24 ③	25 ④
26 ②	27 -2		
28 ②	29 ⑤	30 ①	31 ①
32 ⑤			
33 $-\frac{20}{7}$	34 $\frac{7}{36}$	35 ⑤	36 ③
37 -10			
38 $-\frac{25}{2}$	39 $\frac{27}{10}$	40 -48	41 ③
42 ②	43 ②	44 ②	45 ①
46 ④	47 ⑤		
48 $\frac{1}{2}$	49 $-\frac{1}{4}$	50 ③	

Best 쌍둥이 70~71쪽

1 ③	2 ④	3 ③	4 -8	5 ①	6 ⑤
7 ②	8 ②	9 ④	10 ④	11 ②	12 ④

100점 완성 72~73쪽

1-1 $\frac{9}{10}$	1-2 15	2-1 $a=-4, b=-7, c=3$	
2-2 $a=-4, b=9, c=5$	3-1 $\frac{14}{15}$	3-2 $\frac{3}{5}$	
4-1 $\frac{1}{5}$	4-2 -9	5-1 ③	5-2 756 cm^2

서술형 완성 74~75쪽

1 (1) $-\frac{4}{5}$ (2) $-\frac{3}{5}$	2 -5	3 1.5	4 -2
5 (1) $\frac{5}{4}$ (2) $-\frac{5}{2}$ (3) $-\frac{1}{2}$	6 -3	7 $-\frac{15}{2}$	
8 (1) ㉠, ㉡, ㉢, ㉣, ㉤, ㉥ (또는 ㉡, ㉢, ㉣, ㉤, ㉥) (2) 41			
9 $\frac{15}{64}$	10 $\frac{45}{4}$		

실전 테스트 76~78쪽

1 ①	2 ③	3 ④	4 ①	5 ⑤	6 ②
7 ②	8 ①	9 ③	10 ①	11 ②	12 ②
13 ③	14 ⑤	15 ②	16 ④		
17 ㉠ $\frac{5}{6}, ㉡ -\frac{5}{12}, ㉢ \frac{1}{12}$	18 -5, -4, -3, 3, 4, 5				
19 4	20 $\frac{1}{2}$				

II

문자와 식

1. 문자의 사용과 식



필수 기출

80~85쪽

- 1 ⑤ 2 ② 3 ④ 4 ①, ④ 5 ⑤
6 $200+10x+y$ 7 ② 8 ① 9 ① 10 ②
11 1029 m 12 (1) $3(a+b)\text{ cm}^2$ (2) 48 cm^2
13 ④ 14 ② 15 5 16 ③ 17 ④ 18 ⑤
19 ② 20 3 21 ④ 22 ④ 23 8 24 ②
25 ③ 26 ① 27 $9x$ 28 $26a+2$ 29 ③
30 $\frac{19}{10}x-32$ 31 ⑤ 32 $-11x+7$ 33 ②
34 ② 35 ③ 36 $14x+5$



쌍둥이

86~87쪽

- 1 ④ 2 ① 3 ① 4 ④ 5 ② 6 ②
7 $-13x+36$ 8 ④ 9 $(26-6x)\text{ cm}$ 10 ②
11 ③



100점 완성

88~89쪽

- 1-1 ③ 1-2 -501 2-1 43 2-2 ②
3-1 -5 3-2 ③ 4-1 12 4-2 9
5-1 $(12x+4)\text{ cm}^2$ 5-2 $(8n+16)\text{ cm}$
6-1 $8x+11$ 6-2 $-3x-3$



서술형 완성

90~91쪽

- 1 24
2 (1) 겉넓이: $(2ab+20a+20b)\text{ cm}^2$, 부피: $10ab\text{ cm}^3$
(2) 겉넓이: 460 cm^2 , 부피: 600 cm^3
3 -8 4 $\frac{2}{5}$ 5 $62a-29$ 6 $-\frac{1}{2}x-\frac{1}{6}y$
7 (1) $6x+2$ (2) $3x-1$ (3) $3x+3$
8 (1) $4x+20$ (2) 22 9 $\frac{29}{2}a-\frac{9}{2}$



실전 테스트

92~94쪽

- 1 ②, ④ 2 ② 3 ⑤ 4 ③ 5 ④ 6 ④
7 ④ 8 ④ 9 ③ 10 ① 11 ③ 12 ⑤
13 ④ 14 ④ 15 ① 16 ②
17 $(25-6xy)\text{ cm}$, 1 cm 18 $9x+3$
19 $-x-9$ 20 $x+11$

• 시험 ‘전 범위’ 학습

일일 과제



96~104쪽

- 1 ③ 2 ④ 3 ④ 4 ③ 5 ④ 6 ③
7 ⑤ 8 ②, ③ 9 ① 10 ① 11 ① 12 17
13 ④ 14 ③ 15 ② 16 ⑤ 17 ③ 18 ④
19 ③ 20 ② 21 ③ 22 1.8 23 ③ 24 ①
25 ② 26 $\frac{1}{3}$ 27 6 28 ⑤ 29 ③ 30 ⑤
31 ⑤ 32 ② 33 -130 34 ④ 35 -21
36 ⑤ 37 ② 38 ⑤ 39 ⑤ 40 ④ 41 ③
42 ① 43 ③ 44 ①, ⑤ 45 ⑤ 46 ④
47 ③ 48 $-\frac{1}{12}x-\frac{5}{4}$ 49 ① 50 $3a-5$



105~113쪽

- 1 ④ 2 6 3 ③ 4 ④ 5 60 6 ②
7 ⑤ 8 ⑤ 9 ② 10 ② 11 ② 12 10
13 ④ 14 72 15 ② 16 ② 17 ① 18 ④
19 ③ 20 ③ 21 ③ 22 ④ 23 ③ 24 -3
25 ④ 26 ① 27 -50 28 ④ 29 ⑤
30 ① 31 ⑤ 32 -20 33 ④ 34 ②
35 ⑤ 36 $-\frac{9}{10}$ 37 ② 38 ⑤ 39 ⑤
40 ④ 41 ② 42 20°C 43 ② 44 ①
45 ④ 46 ② 47 $\ominus 2x-2$, $\ominus 5x-11$
48 $\frac{15}{2}a+7$ 49 ⑤ 50 $-2x+10$



114~122쪽

- 1 ② 2 ④ 3 ③ 4 ③ 5 300 6 ①
7 ③ 8 ④ 9 ⑤ 10 ④ 11 510 12 10
13 ① 14 ④ 15 1120 16 ③ 17 ⑤ 18 ③
19 $-9, 9$ 20 $a=-2, b=4$ 21 ③, ⑤
22 ② 23 7 24 ③ 25 $\frac{31}{12}$ 26 -5 27 $\frac{26}{3}$
28 ③ 29 15 30 -9 31 ④ 32 1356
33 ② 34 $-\frac{1}{12}$ 35 ⑤ 36 ① 37 ①
38 선주: 14, 민수: 6 39 ③ 40 ⑤ 41 ④
42 $(30000-720x)\text{ 원}$, 15600원 43 5 44 ③
45 ②, ⑤ 46 ③ 47 $\frac{1}{4}$ 48 ④
49 $4x+2$ 50 ③



123~131쪽

- 1 ①, ④ 2 13 3 ④ 4 66 5 ④ 6 ④
7 6 8 ③ 9 ② 10 6 11 ① 12 108
13 ① 14 ① 15 ④ 16 ① 17 ⑤ 18 ③
19 -6 20 4 21 $b<c<a$ 22 ② 23 $\frac{47}{10}$
24 ④ 25 ③ 26 ⑤ 27 ① 28 $\frac{1}{50}$ 29 ③
30 ④ 31 ④ 32 $-\frac{4}{3}$ 33 $-\frac{2}{9}$ 34 ③ 35 ③
36 ③ 37 ② 38 ② 39 2 40 ⑤ 41 -7
42 ④ 43 35 44 $-20x+12$ 45 -20
46 ① 47 $4x$ 48 ③ 49 $-3x+1$ 50 $a+9$

실전 모의고사



132~135쪽

- 1 ② 2 ③ 3 ③ 4 ⑤ 5 ② 6 ②
7 ③ 8 ② 9 ④ 10 ③ 11 ④ 12 ⑤
13 ⑤ 14 ② 15 ② 16 ② 17 ③ 18 ⑤
19 ① 20 ② 21 50 22 42
23 (1) $a=-3, b=3$ (2) 0 24 $-\frac{5}{2}$
25 (1) $\frac{(x+y)h}{2}\text{ cm}^2$ (2) 24 cm^2



136~139쪽

- 1 ② 2 ⑤ 3 ③ 4 ② 5 ④ 6 ④
7 ①, ③ 8 ③ 9 ⑤ 10 ④ 11 ① 12 ②
13 ⑤ 14 ① 15 ④ 16 ④ 17 ② 18 ①
19 ⑤ 20 ④ 21 3 22 11
23 (1) $-\frac{25}{4}\leq a<4$ (2) 6 24 22 25 $\frac{19}{6}$



140~143쪽

- 1 ④ 2 ④ 3 ① 4 ③ 5 ② 6 ①
7 ③ 8 ④ 9 ② 10 ② 11 ① 12 ⑤
13 ③ 14 ④ 15 ② 16 ③ 17 ③ 18 ③
19 ① 20 ③ 21 144, 324 22 2 23 $\frac{46}{5}$
24 8 25 $x+14$