

I. 소인수분해

8쪽 1 (1) 1, 2, 4, 8, 합성수 (2) 1, 13, 소수

(3) 1, 17, 소수 (4) 1, 2, 4, 7, 14, 28, 합성수

2 (1) 5, 19, 71 (2) 2, 37, 41, 83

3 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

4 (1) ○ (2) × (3) × (4) ×

9쪽 1 (1) 말: 3, 지수: 2 (2) 말: 5, 지수: 6

(3) 말: 7, 지수: 10

2 (1) 5 (2) 5 (3) 2, 3 (4) 3, 5

3 (1) 10^4 (2) $5^3 \times 7^2$ (3) $2^2 \times 3^2 \times 7^3$ (4) $3^3 \times 5^2 \times 11$ 4 (1) 2 (2) $\frac{1}{5}$ (3) 2, 3 (4) 25 (1) $\left(\frac{1}{7}\right)^3$ (2) $\left(\frac{1}{3}\right)^3 \times \left(\frac{1}{5}\right)^2$ (3) $\frac{1}{2^2 \times 5^3}$

10쪽 1 (1) 방법 ① 2, 2 방법 ② 2, 2, 2, 7

(2) 방법 ① 2, 3, 3, 5 방법 ② 2, 3, 3, 5, 2, 3, 5

2 (1) $\begin{array}{r} 2 \overline{)24} \\ 2 \overline{)12} \\ 2 \overline{)6} \\ 3 \end{array}$ $2^3 \times 3$, 소인수: 2, 3

(2) $\begin{array}{r} 2 \overline{)36} \\ 2 \overline{)18} \\ 3 \overline{)9} \\ 3 \end{array}$ $2^2 \times 3^2$, 소인수: 2, 3

(3) $\begin{array}{r} 2 \overline{)50} \\ 5 \overline{)25} \\ 5 \end{array}$ 2×5^2 , 소인수: 2, 5

(4) $\begin{array}{r} 2 \overline{)84} \\ 2 \overline{)42} \\ 3 \overline{)21} \\ 7 \end{array}$ $2^2 \times 3 \times 7$, 소인수: 2, 3, 7

(5) $\begin{array}{r} 2 \overline{)126} \\ 3 \overline{)63} \\ 3 \overline{)21} \\ 7 \end{array}$ $2 \times 3^2 \times 7$, 소인수: 2, 3, 7

(6) $\begin{array}{r} 3 \overline{)135} \\ 3 \overline{)45} \\ 3 \overline{)15} \\ 5 \end{array}$ $3^3 \times 5$, 소인수: 3, 5

11~12쪽

1 (1)

×	1	5
1	1	5
3	3	15

약수: 1, 3, 5, 15

(2)

×	1	3
1	1	3
2	2	6
2^2	4	12

약수: 1, 2, 3, 4, 6, 12

(3)

×	1	5
1	1	5
2	2	10
2^2	4	20
2^3	8	40

약수: 1, 2, 4, 5, 8, 10, 20, 40

(5) $196 = 2^2 \times 7^2$

×	1	7	7^2
1	1	7	49
2	2	14	98
2^2	4	28	196

약수: 1, 2, 4, 7, 14, 28, 49, 98, 196

(6) $200 = 2^3 \times 5^2$

×	1	5	5^2
1	1	5	25
2	2	10	50
2^2	4	20	100
2^3	8	40	200

약수: 1, 2, 4, 5, 8, 10, 20, 25, 40, 50, 100, 200

2 (1) ㄱ, ㄴ, ㄹ, ㅁ (2) ㄴ, ㄷ, ㄹ (3) ㄱ, ㄴ, ㅁ (4) ㄱ, ㄴ, ㄹ

(5) ㄴ, ㄷ, ㅁ

3 (1) 3, 1, 8 (2) 12개 (3) 1, 2, 3, 24 (4) 30개

4 (1) 2, 1, 2, 1, 6 (2) 8개 (3) 12개 (4) 12개

13쪽

1 (1) 16의 약수: 1, 2, 4, 8, 16

20의 약수: 1, 2, 4, 5, 10, 20

공약수: 1, 2, 4, 최대공약수: 4

(2) 21의 약수: 1, 3, 7, 21

35의 약수: 1, 5, 7, 35

공약수: 1, 7, 최대공약수: 7

(3) 24의 약수: 1, 2, 3, 4, 6, 8, 12, 24

32의 약수: 1, 2, 4, 8, 16, 32

공약수: 1, 2, 4, 8, 최대공약수: 8

2 (1) 1, 2, 3, 6 (2) 1, 3, 5, 15 (3) 1, 2, 3, 6, 9, 18

3 (1) 1, ○ (2) 4, × (3) 11, × (4) 1, ○

14~15쪽

1 (1) $2^3, 2^3, 8$ (2) 7, 3, 7, 14(3) $2^3, 3, 5, 2^2, 5, 20$ (4) $3, 2^4, 2^2, 2^2, 3, 12$ (5) $2^3, 2, 3^2, 2, 3, 6$ (6) $2^3, 7, 2^3, 2^3, 8$ 2 (1) 2×3^2 (2) $2^2 \times 3^2$ (3) $2 \times 3 \times 5$ (4) $2^2 \times 3$ (5) 3 (6) $2^2 \times 3$

3 (1) 9 (2) 8 (3) 12 (4) 4 (5) 4 (6) 12

16쪽

1 (1) 3의 배수: 3, 6, 9, 12, 15, 18, 21, 24, ...

4의 배수: 4, 8, 12, 16, 20, 24, ...

공배수: 12, 24, ..., 최소공배수: 12

(2) 8의 배수: 8, 16, 24, 32, 40, 48, ...

12의 배수: 12, 24, 36, 48, ...

공배수: 24, 48, ..., 최소공배수: 24

(3) 10의 배수: 10, 20, 30, 40, 50, 60, ...

15의 배수: 15, 30, 45, 60, ...

공배수: 30, 60, ..., 최소공배수: 30

2 (1) 8, 16, 24 (2) 30, 60, 90 (3) 60, 120, 180

(4) 15, 30, 45 (5) 24, 48, 72

17~18쪽

1 (1) $2^4, 48$ (2) 2, 7, 2, 7, 42(3) $2^2, 3, 2^2, 3^2, 180$ (4) $2^2, 2^3, 2, 7, 2^3, 7, 168$ (5) $3^2, 2, 3^3, 3, 2^2, 3^3, 540$ (6) $2^2, 5, 7, 2, 5, 2^2, 5, 140$ 2 (1) $2^2 \times 5$ (2) $2^3 \times 3^2 \times 5$ (3) $2^2 \times 3^2 \times 5 \times 7$ (4) $2^2 \times 5 \times 7$ (5) $2^2 \times 3^2 \times 5^2$ (6) $2^3 \times 3^3 \times 7$

3 (1) 70 (2) 96 (3) 180 (4) 90 (5) 180 (6) 210



19쪽

대단원 개념 마무리

수	약수	소수/합성수
5	1, 5	소수
12	1, 2, 3, 4, 6, 12	합성수
43	1, 43	소수
51	1, 3, 17, 51	합성수

2 (1) 11^4 (2) $2^3 \times 7^2 \times 11$ (3) $\left(\frac{1}{5}\right)^3 \times \left(\frac{1}{13}\right)^2$ (4) $\frac{1}{2^2 \times 3^2 \times 11}$

3 (1) $2^3 \times 3^2 / 2, 3$ (2) $2 \times 3 \times 5^2 / 2, 3, 5$

4 (1) $3^4 / 1, 3, 9, 27, 81$

(2) $2^2 \times 5^2 / 1, 2, 4, 5, 10, 20, 25, 50, 100$

5 (1) 8개 (2) 8개 (3) 12개

6 (1) ○ (2) × (3) ○ (4) ×

7 (1) 12 (2) 4 (3) 15

8 (1) 196 (2) 330 (3) 180

II. 정수와 유리수

22쪽 1 (1) +4 (2) -10 (3) -50

2 (1) -2층 (2) +7000원 (3) +2200 m

3 (1) +1, 양수 (2) -4, 음수 (3) -1.5, 음수

(4) $+\frac{1}{6}$, 양수 (5) $-\frac{2}{3}$, 음수

4 (1) $+2, +\frac{7}{2}, +10$ (2) $-\frac{1}{9}, -6$

23쪽

1 (1) $+\frac{6}{6}, 9$ (2) -4, 0, $+\frac{6}{6}, 9$ (3) $-\frac{5}{9}, -4, -\frac{2}{13}$

(4) $+7.2, +\frac{6}{6}, 9$ (5) $-\frac{5}{9}, +7.2, -\frac{2}{13}$

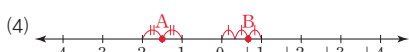
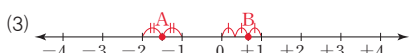
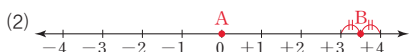
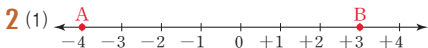
수	-5	0	$+\frac{9}{3}$	$-\frac{8}{5}$	+0.3	$+\frac{1}{4}$
정수	○	○	○	×	×	×
유리수	○	○	○	○	○	○
양수	×	×	○	×	○	○
음수	○	×	×	○	×	×

3 (1) ○ (2) × (3) × (4) ○ (5) ○ (6) ○

24쪽

1 (1) A: -1, B: +2 (2) A: -2, B: +4

(3) A: 0, B: $+\frac{5}{2}$ (4) A: $-\frac{5}{3}$, B: +1



25쪽

1 (1) 7 (2) $|-12|=12$ (3) $|0|=0$

(4) $|-1.5|=1.5$ (5) $\left|+\frac{7}{5}\right|=\frac{7}{5}$

2 (1) 4 (2) 11 (3) 2.3 (4) $\frac{1}{6}$ (5) $\frac{4}{5}$

3 (1) -2, +2 (2) -5, +5 (3) $-\frac{5}{2}, +\frac{5}{2}$

4 (1) -8, +8 (2) $-\frac{3}{4}, +\frac{3}{4}$ (3) +9 (4) -1.6

26쪽

1 (1) < (2) > (3) > (4) > (5) <

2 (1) < (2) < (3) > (4) 10, 9, > (5) 15, 17, <

3 (1) > (2) > (3) < (4) 9, 8, < (5) 6, 8, >

27쪽

1 (1) < (2) ≥ (3) > (4) ≤, <

(5) ≤, ≤ (6) <, ≤

2 (1) $x < 3$ (2) $x \leq -4$ (3) $x \geq \frac{8}{7}$

(4) $-5 < x < 2$ (5) $-\frac{1}{2} < x \leq \frac{2}{3}$ (6) $-2 \leq x < 6$

28쪽

1 (1) +5 (2) -5

2 (1) +, +, 8 (2) -, 2, -, 10 (3) -, $\frac{3}{4}$, -, $\frac{5}{2}$

(4) +, 6, +, $\frac{11}{8}$ (5) -, 6, -, $\frac{16}{15}$

3 (1) +19 (2) -9 (3) $+\frac{8}{5}$ (4) $-\frac{11}{6}$ (5) $+\frac{17}{12}$

29쪽

1 (1) +4 (2) -4

2 (1) +, +, 2 (2) -, 8, -, 3 (3) +, 0.3, +, 0.5

(4) 14, -, $\frac{15}{10}$, $\frac{14}{10}$, -, $\frac{1}{10}$ (5) 3, -, $\frac{5}{6}$, $\frac{3}{6}$, -, $\frac{1}{3}$

3 (1) +6 (2) +0.8 (3) $-\frac{5}{3}$ (4) $+\frac{1}{12}$ (5) $-\frac{3}{20}$

30쪽

1 (1) -5, -5, -14, -7

(가) 덧셈의 교환법칙, (나) 덧셈의 결합법칙

(2) $+\frac{1}{6}, +\frac{1}{6}, +1, +\frac{2}{3}$

(가) 덧셈의 교환법칙, (나) 덧셈의 결합법칙

2 (1) +2 (2) +1 (3) +2.3 (4) $-\frac{1}{12}$ (5) $+\frac{1}{5}$

31~32쪽 1 (1) -, 5, +, 5, +, 8 (2) -, 6, -, 6, -, 16

(3) -, -, 3, +, 5, -, 3, +, $\frac{1}{3}$

(4) -, -, 6, -, 1, +, 6, -, $\frac{7}{8}$

2 (1) -4 (2) -10 (3) +1.3 (4) -2 (5) $-\frac{11}{10}$ (6) $-\frac{29}{28}$

3 (1) +, 3, +, 3, +, 10 (2) +, 6, -, 6, -, 2

(3) +, +, 12, +, 5, +, 12, +, $\frac{17}{8}$

(4) +, +, 2, -, 3, -, 2, -, $\frac{1}{10}$

4 (1) +26 (2) -5 (3) +5.6 (4) +1 (5) $+\frac{41}{15}$ (6) $-\frac{1}{4}$

33쪽 1 (1) +, 9, +, 9, +, 16, +, 11

(2) +, 2, +, 2, +, 2, -, 6

(3) -, $\frac{1}{4}$, -, $\frac{1}{4}$, +, $\frac{1}{2}$, -, 2**2** (1) -8 (2) +6 (3) +11 (4) -3 (5) $-\frac{5}{2}$ (6) $-\frac{1}{4}$ **34쪽** 1 (1) +, 8, -, 8, -, 10

(2) +, +, 7, +, -, 7, -, 7, +, -, 22, +, -, 20

(3) +, 9, -, 9, -, 9, +, 2, -, 9, -, 7

2 (1) -8 (2) -7 (3) 0.7 (4) $-\frac{2}{3}$ (5) 0 (6) $-\frac{1}{12}$ **35쪽** 1 (1) +, +, 10 (2) +, 3, +, 12(3) +, $\frac{4}{3}$, +, 2 (4) -, -, 32 (5) -, 6, -, 30(6) -, $\frac{8}{5}$, -, $\frac{6}{5}$ **2** (1) +14 (2) +36 (3) $+\frac{6}{5}$ (4) 0 (5) -55 (6) -36(7) $-\frac{5}{16}$ **36쪽****1** (1) -5, -5, -10, +170

(가) 곱셈의 교환법칙, (나) 곱셈의 결합법칙

(2) $-\frac{5}{2}$, $-\frac{5}{2}$, +2, $+\frac{14}{3}$

(가) 곱셈의 교환법칙, (나) 곱셈의 결합법칙

2 (1) -300 (2) -49 (3) +70 (4) $+\frac{7}{9}$ (5) $+\frac{3}{4}$ **37쪽** 1 (1) +, +, 90 (2) -, -, 40 (3) +, +, 56(4) -, -, 36 (5) +, +, $\frac{4}{3}$ (6) -, -, $\frac{3}{25}$ **2** (1) +36 (2) -48 (3) +27 (4) $-\frac{35}{4}$ (5) $+\frac{1}{5}$ (6) -40**38쪽** 1 (1) +9 (2) -9**2** (1) -125 (2) -125**3** (1) +1 (2) -1**4** (1) $+\frac{1}{9}$ (2) $-\frac{1}{32}$ **5** (1) +16, -48 (2) +128 (3) +20 (4) -18 (5) +3
(6) -10**39쪽** 1 (1) 25, 2500, 2575 (2) 15, -60, 1440

(3) 17, 17, 170 (4) 3.14, 3.14, 314

2 (1) -510 (2) 16 (3) 1615 (4) -2300 (5) -42 (6) 39**40쪽** 1 (1) +, +, 3 (2) +, 5, +, 4 (3) -, 6, -, 6

(4) -, -, 8 (5) +, 7, +, 0.8 (6) -, 0.8, -, 9

2 (1) +14 (2) +2 (3) 0 (4) -1 (5) -9 (6) +0.9 (7) -2**41쪽** 1 (1) $\frac{2}{7}$, $\frac{2}{7}$ (2) $-\frac{5}{4}$, $-\frac{5}{4}$ (3) $\frac{1}{3}$, $\frac{1}{3}$ (4) $\frac{3}{7}$, $\frac{3}{7}$ (5) $\frac{5}{6}$, $\frac{5}{6}$ **2** (1) $+\frac{5}{2}$, $\frac{5}{2}$, -15 (2) $+\frac{2}{3}$ (3) $-\frac{3}{10}$ (4) -8(5) $+\frac{1}{3}$ (6) $-\frac{5}{2}$ **42~43쪽** 1 (1) $-\frac{9}{2}$, $\frac{9}{2}$, $-\frac{9}{4}$ (2) $\frac{3}{16}$ (3) -56(4) $-\frac{1}{4}$ (5) $\frac{9}{8}$ (6) $-\frac{2}{5}$ **2** (1) -11 (2) -44 (3) 14 (4) 11 (5) -25 (6) -25 (7) 22**3** (1) 0 (2) 5 (3) 8 (4) -7 (5) -7**4** (1) -1 (2) 16 (3) 5 (4) -36 (5) 16**44~45쪽** 대단원 개념 마무리**1** $+\frac{2}{7}$, +8.2, $-\frac{4}{9}$ **2** A: -4, B: $-\frac{5}{2}$, C: +2, D: $+\frac{10}{3}$ **3** (1) 7 (2) 5.4 (3) +3 (4) $-\frac{5}{6}$ **4** (1) < (2) > (3) >**5** (1) $-10 \leq x < -8$ (2) $-\frac{3}{2} < x \leq 0$ (3) $-2.8 \leq x \leq \frac{6}{5}$ **6** (1) +9.7 (2) $-\frac{7}{3}$ (3) $+\frac{53}{28}$ (4) -3 (5) $+\frac{5}{4}$ (6) $-\frac{13}{30}$ **7** (1) +8 (2) -1 (3) +1.9 (4) $-\frac{5}{2}$ **8** (1) +24 (2) $+\frac{14}{5}$ (3) -15.5 (4) -3**9** (1) +40 (2) $-\frac{7}{11}$ (3) $+\frac{12}{5}$ (4) +3**10** (1) -840 (2) -600**11** (1) -12 (2) +0.4 (3) -7 (4) $+\frac{3}{10}$ (5) $-\frac{1}{16}$ **12** (1) 29 (2) 42 (3) 20 (4) -1 (5) -13 (6) -4

III. 문자와 식

48쪽 1 (1) 800, a (2) $(200 \times x)$ 원 (3) a , 13(4) $(x+10)$ 세 (5) 5000, $700 \times x$ (6) $(3000-400 \times a)$ 원(7) y , 12 (8) $(a \div 5)$ 원 (9) 4, x (10) $(x \times 9)$ cm² (11) a , 5(12) $(a+4)$ km**49쪽** 1 (1) $5a$ (2) $-4x$ (3) abx (4) $-xy$ (5) $-0.1a$ (6) $8(a+b)$ (7) $-(x-9)$ (8) $\frac{1}{4}x^3$ (9) ax^2y (10) $-2a^3b$ (11) $0.1xy^3$ **2** (1) $9+6a^2$ (2) $5x-2y$ (3) $8x+7y$ (4) $-3a-b$ **50쪽** 1 (1) $\frac{a}{5}$ (2) $-\frac{2}{b}$ (3) $\frac{4a}{b}$ (4) $\frac{x+y}{7}$ (5) $\frac{x}{a-b}$ **2** (1) y , 6, $\frac{x}{6y}$ (2) $\frac{a}{bc}$ (3) $\frac{x}{7y}$ **3** (1) b , $\frac{8a}{b}$ (2) $\frac{3y}{x}$ (3) $\frac{a^2}{b}$ (4) $9a+\frac{1}{b}$ (5) $7-\frac{2x}{y}$ (6) $2(a+b)-\frac{c}{3}$

51~52쪽 1 (1) 3, 9 (2) 3, -1 (3) 3, 0 (4) 3, 13

2 (1) -10 (2) 4 (3) 15 (4) $\frac{1}{6}$

3 (1) -4, -7 (2) -4, -8 (3) -4, 3 (4) -4, -14

4 (1) 2 (2) -9 (3) 7 (4) $-\frac{2}{9}$

5 (1) -3, 4, 14 (2) -3, 4, -72 (3) -3, 4, -7

(4) -3, 4, -3, 4, $-\frac{1}{12}$

6 (1) 7 (2) -28 (3) 5 (4) 0

7 (1) -1 (2) -1 (3) 6 (4) 0

8 (1) $\frac{1}{3}$, 3, 5 (2) -10 (3) -12 (4) 8

53쪽

1 (1) -2 (2) $-5x, 6y, -2$ (3) -2 (4) -5 (5) 6

2 (1) -3, -4 (2) $x^2, -3x, -4$ (3) -4 (4) -3 (5) 1

3 (1) ○ (2) × (3) ○ (4) ○ (5) × (6) ○ (7) ×

54쪽

1 (1) 1, 0, 1 (2) 2, 1, 0, 2 (3) 1 (4) 2 (5) 3 (6) 1 (7) 3

2 (1) ○ (2) ○ (3) × (4) ○ (5) × (6) ○ (7) ×

55쪽

1 (1) 2, 2, 6 (2) $-12y$ (3) $-35a$ (4) $9b$ (5) $-6x$ (6) $-2y$

2 (1) 4, 4, 6 (2) $-6b$ (3) $-8x$ (4) $\frac{2}{7}y$ (5) $-12a$ (6) $6x$

56쪽

1 (1) 5, 5, 10, 5 (2) $-8a+20$ (3) $4x+15$ (4) $-3y+4$ (5) 7, 7, 14, 21 (6) $-18y+6$ (7) $7a-1$

(8) $-4x+\frac{2}{3}$

2 (1) $\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 2, 3$ (2) $3a-6$ (3) $-2x+4$ (4) $3x-1$

(5) $2a+8$ (6) $-6x+15$ (7) $-10a+\frac{5}{2}$

57쪽

1 (1) x 와 $-3x, 2y$ 와 $6y, -4$ 와 7

(2) 1과 5, $\frac{1}{3}x$ 와 $-x$

2 (1) a 와 $2a, -3$ 과 1 (2) $6x$ 와 $-3x, \frac{y}{2}$ 와 $-5y$

(3) $4a$ 와 $-a, -b$ 와 $5b, 2$ 와 $\frac{3}{4}$

3 (1) 4, 7 (2) 7, -3 (3) $9a$ (4) $4b+2$ (5) $6x+1$

(6) $4x-y$ (7) $-2a+4b$ (8) $2a+2$

58~59쪽 1 (1) 2, 5, 2, 5, 3, 1 (2) $6x+9$ (3) $-12x+1$

(4) 6, 1, 6, 1, 3, 8 (5) $7x-4$ (6) $-13x+6$

2 (1) 6, 3, 6, 3, 8, 5 (2) $-11x+13$ (3) $10x-2$ (4) $12x+11$

(5) $-3x+4$ (6) $\frac{11}{3}x-1$ (7) 6, 9, 6, 9, 2, 13 (8) $-2x-7$

(9) $24x$ (10) $14x-10$ (11) $-x-4$ (12) $\frac{4}{3}x+\frac{1}{3}$

3 (1) 2, 3, 2, 15, 2, 15, 11, 23, $\frac{11}{6}, \frac{23}{6}$ (2) $\frac{3}{4}x-\frac{5}{4}$

(3) $\frac{5}{12}x+\frac{25}{12}$ (4) $\frac{3}{2}x-\frac{11}{6}$ (5) $\frac{5}{12}x-\frac{65}{12}$

60쪽 1 (1) ○ (2) × (3) × (4) ○ (5) ○

2 (1) 좌변: $3+6$, 우변: 9 (2) 좌변: $x-3$, 우변: 2

(3) 좌변: $5x$, 우변: $x+7$ (4) 좌변: $2x-1$, 우변: $x+3$

3 (1) 2, 2 (2) $5000+800x=7400$ (3) $3x=24$

(4) $120-3x=18$ (5) $100-6x=4$

61쪽

1 (1) 해: $x=1$

x 의 값	좌변의 값	우변의 값	참/거짓
-1	$3 \times (-1) - 2 = -5$	1	거짓
0	$3 \times 0 - 2 = -2$	1	거짓
1	$3 \times 1 - 2 = 1$	1	참

(2) 해: $x=1$

x 의 값	좌변의 값	우변의 값	참/거짓
-1	$2 \times (-1) = -2$	$3 \times (-1) - 1 = -4$	거짓
0	$2 \times 0 = 0$	$3 \times 0 - 1 = -1$	거짓
1	$2 \times 1 = 2$	$3 \times 1 - 1 = 2$	참

(3) 해: $x=-1$

x 의 값	좌변의 값	우변의 값	참/거짓
-1	$-1+10=9$	$5-4 \times (-1)=9$	참
0	$0+10=10$	$5-4 \times 0=5$	거짓
1	$1+10=11$	$5-4 \times 1=1$	거짓

2 (1) 2, 7, ○ (2) ○ (3) × (4) ○ (5) ○ (6) ×

62쪽

1 (1) $3x, \bigcirc$ (2) × (3) ○ (4) × (5) ○ (6) ×

2 (1) 1 (2) $a=4, b=-2$ (3) $a=2, b=5$ (4) $a=-3, b=-1$

(5) $a=3, b=-3$

63쪽

1 (1) 2 (2) 3 (3) 5 (4) 4

2 (1) ○ (2) × (3) ○ (4) × (5) ○ (6) ×

3 (1) $\angle, \geq$ (2) $\neg, \sqsubset$

4 (1) 3, 3, 11 (2) $x=2$ (3) $x=-2$ (4) $x=-3$

64쪽

1 (1) + (2) - (3) +, - (4) -, -

2 (1) $2x=7-5$ (2) $3x-x=4$ (3) $-6x-5x=-3-4$

(4) $-x-9x=10-9$

3 (1) ○ (2) $4x+5, \bigcirc$ (3) 0, × (4) $x^2+6, \times$

(5) $2x^2+8x-3, \times$ (6) $2x+1, \bigcirc$

65쪽

1 (1) $3x-4=8$

$3x=8+4$  -4 를 이항하면

$3x=12$  양변을 3으로 나누면

$\therefore x=4$

(2) $4x+12=-2x$

$4x+12x=-12$  $-2x$ 를 각각 이항하면

$6x=-12$  양변을 6으로 나누면

$\therefore x=-2$

(3) $2(x-4)=5x+1$

$2x-8=5x+1$  괄호를 풀면

$2x-5x=1+8$  $-8, 5x$ 를 각각 이항하면

$-3x=9$  양변을 -3 으로 나누면

$\therefore x=-3$

- 2 (1) $x = -2$ (2) $x = 4$ (3) $x = -5$ (4) $x = 2$ (5) $x = 3$
(6) $x = -4$ (7) $x = 4$ (8) $x = \frac{7}{5}$

66~67쪽

- 1 (1) $0.5x + 0.3 = 0.2x$
 $5x + \boxed{3} = 2x$ 양변에 $\boxed{10}$ 을 곱하면
 $5x - \boxed{2}x = -\boxed{3}$ $\boxed{3}$, $2x$ 를 각각 이항하면
 $\boxed{3}x = -\boxed{3}$ 양변을 $\boxed{3}$ 으로 나누면
 $\therefore x = \boxed{-1}$
- (2) $0.02x - 0.16 = 0.08$
 $2x - \boxed{16} = 8$ 양변에 $\boxed{100}$ 을 곱하면
 $\boxed{2}x = 8 + \boxed{16}$ $\boxed{-16}$ 을 이항하면
 $\boxed{2}x = \boxed{24}$ 양변을 $\boxed{2}$ 로 나누면
 $\therefore x = \boxed{12}$

- 2 (1) $x = 3$ (2) $x = -21$ (3) $x = 6$ (4) $x = -14$

- 3 (1) $\frac{1}{4}x - \frac{3}{2} = \frac{1}{2}x$
 $x - \boxed{6} = 2x$ 양변에 $\boxed{4}$ 를 곱하면
 $x - \boxed{2}x = \boxed{6}$ $\boxed{-6}$, $2x$ 를 각각 이항하면
 $\boxed{-}x = \boxed{6}$ 양변을 $\boxed{-1}$ 로 나누면
 $\therefore x = \boxed{-6}$
- (2) $\frac{x}{4} = \frac{x+2}{6}$
 $\boxed{3}x = 2(x+2)$ 양변에 $\boxed{12}$ 를 곱하면
 $\boxed{3}x = 2x + \boxed{4}$ 괄호를 풀면
 $\boxed{3}x - 2x = \boxed{4}$ $\boxed{2x}$ 를 이항하면
 $\therefore x = \boxed{4}$

- 4 (1) $x = 6$ (2) $x = -8$ (3) $x = -36$ (4) $x = 1$

- 5 $\frac{2}{5}x - 1 = 0.3x$
 $\frac{2}{5}x - 1 = \boxed{\frac{3}{10}}x$ 소수를 분수로 고치면
 $4x - \boxed{10} = \boxed{3}x$ 양변에 $\boxed{10}$ 을 곱하면
 $4x - \boxed{3}x = \boxed{10}$ $\boxed{-10}$, $3x$ 를 각각 이항하면
 $\therefore x = \boxed{10}$

- 6 (1) $x = -\frac{1}{4}$ (2) $x = 14$ (3) $x = -90$ (4) $x = -\frac{1}{4}$

68쪽

- 1 (1) $x-1$, $x+1$ (2) 78, $x-1+x+x+1=78$
(3) $x=26$ (4) 25, 26, 27
- 2 47, 49, 51
- 3 (1) $x-4$ (2) 32, $x+x-4=32$ (3) $x=18$ (4) 14세
- 4 15년 후

69쪽

- 1 (1) $\frac{x}{2}$ 시간, $\frac{x}{3}$ 시간 (2) 5, $\frac{x}{2} + \frac{x}{3} = 5$
(3) $x=6$ (4) 6 km
- 2 26 km

- 3 (1) $\frac{x}{15}$ 시간, $\frac{x}{10}$ 시간
(2) $\frac{30}{60}$ (또는 $\frac{1}{2}$), $\frac{x}{10} - \frac{x}{15} = \frac{30}{60}$ (또는 $\frac{x}{10} - \frac{x}{15} = \frac{1}{2}$)
(3) $x=15$ (4) 15 km

- 4 2 km

70~71쪽

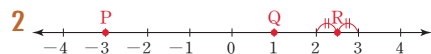
대단원 개념 마무리

- 1 (1) $-0.1axy$ (2) $9x-7y$ (3) $\frac{x}{5yz}$ (4) $\frac{a+b}{24}$
- 2 (1) 18 (2) $\frac{6}{7}$ (3) -1 (4) 2
- 3 (1) $3x, -8x^2, 10$ (2) 10 (3) 3 (4) -8 (5) 2
- 4 (1) $-\frac{15}{2}x$ (2) $-15y$ (3) $-9a+6$ (4) $-21y-14$
- 5 (1) $-11x-3$ (2) $-x+12$ (3) $-7x+24$ (4) $-\frac{11}{6}x-2$
- 6 (1) $2x-9=4x+16$ (2) $5000-600x=200$
(3) $2(x+x+3)=30$
- 7 (1) $\bigcirc$ (2) $\times$ (3) $\bigcirc$
- 8 (1) $a=5, b=-8$ (2) $a=-3, b=9$ (3) $a=5, b=-7$
- 9 (1) $\times$ (2) $\times$ (3) $\bigcirc$
- 10 $\neg, \supset, \supseteq$
- 11 (1) $x=5$ (2) $x=\frac{1}{3}$ (3) $x=-16$ (4) $x=\frac{18}{5}$
(5) $x=\frac{8}{3}$ (6) $x=\frac{11}{4}$
- 12 60
- 13 7년 후
- 14 8 km

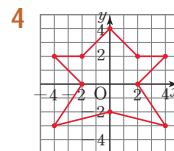
IV. 좌표평면과 그래프

74쪽

- 1 A(-4), B($-\frac{1}{2}$) (또는 B(-0.5)), C(3)



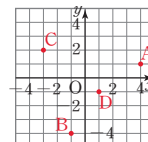
- 3 A(1, 3), B(-4, 1), C(0, -3), D(4, -2)



- 5 (1) (0, 0) (2) (5, 0) (3) (0, 1)

75쪽

- 1 (1) 제1사분면
(2) 제3사분면
(3) 제2사분면
(4) 제4사분면



- 2 (1) $\perp$, $\square$ (2) $\supset$, $\supseteq$
- 3 (1) $+$ (2) $+$, $-$, 4 (3) $+$, $+$, 1 (4) $+$, $-$, 4 (5) $-$, $+$, 2



76~77쪽 1 □

2 (1) ⊃ (2) ⊃, ⊂ (3) ⊃

3 (1) ⊃ (2) ⊂ (3) ⊃

4 (1) 12분 (2) 250 m

5 (1) 100 km (2) 2시간 (3) 60 km

78쪽

1 (1) 4, 8, 12, 16, 20, $y=4x$

(2) 2, 4, 6, 8, 10, $y=2x$

(3) 9, 18, 27, 36, 45, $y=9x$

2 (1) $y=3x$ (2) $y=500x$ (3) $y=800x$

3 (1) $y=5x$ (2) $y=-4x$ (3) $y=-\frac{2}{3}x$

79쪽

1 (1) 2, 4, 6, 8 (2) $y=2x$ (3) 28 L

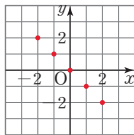
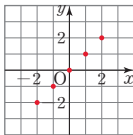
2 (1) $y=0.5x$ (2) 3 cm

3 (1) 12, 24, 36, 48 (2) $y=12x$ (3) 12 L

4 (1) $y=3x$ (2) 20분

80~81쪽

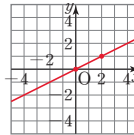
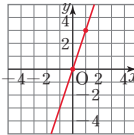
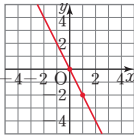
1 (1) -2, -1, 0, 1, 2 (2) 2, 1, 0, -1, -2



2 (1) 0, -2

(2) 0, 3

(3) 0, 1



3 (1) 제1사분면과 제3사분면 (2) 제2사분면과 제4사분면

(3) 제1사분면과 제3사분면 (4) 제2사분면과 제4사분면

4 (1) 2, 8, × (2) ○ (3) × (4) ○ (5) ×

5 (1) $\frac{3}{5}$ (2) $-\frac{3}{2}$ (3) $\frac{5}{4}$ (4) $-\frac{1}{3}$

82쪽

1 (1) 60, 30, 20, 15, 1, $y=\frac{60}{x}$

(2) 120, 60, 40, 30, 1, $y=\frac{120}{x}$

(3) 24, 12, 8, 6, $\frac{24}{5}$, $y=\frac{24}{x}$

2 (1) $y=\frac{4}{x}$ (2) $y=\frac{40}{x}$ (3) $y=\frac{30}{x}$

3 (1) $y=\frac{32}{x}$ (2) $y=-\frac{14}{x}$ (3) $y=\frac{18}{x}$

83쪽

1 (1) $y=\frac{12}{x}$ (2) 3 mL

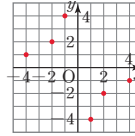
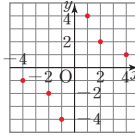
2 (1) $y=\frac{27}{x}$ (2) 3개

3 (1) $y=\frac{160}{x}$ (2) 시속 80 km

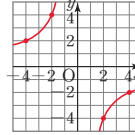
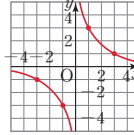
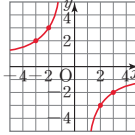
4 (1) $y=\frac{60}{x}$ (2) 12개

84~85쪽

1 (1) -1, -2, -4, 4, 2, 1 (2) 1, 2, 4, -4, -2, -1



2 (1) -3, -2, 3, 2 (2) 3, 1, -3, -1 (3) -4, -2, 4, 2



3 (1) 제1사분면과 제3사분면 (2) 제2사분면과 제4사분면

(3) 제1사분면과 제3사분면 (4) 제2사분면과 제4사분면

4 (1) 2, -6, × (2) ○ (3) × (4) ○ (5) ×

5 (1) 3 (2) 12 (3) -8 (4) -6

86~87쪽 대단원 개념 마무리

1 (1) A(-2), B(0), C($\frac{3}{2}$), D(4)

(2) A(-2, 3), B(-3, -4), C(4, -3), D(2, 0)

2 (1) (2, -5) (2) (-4, 0) (3) (0, 9)

3 (1) 제4사분면 (2) 제3사분면 (3) 제2사분면 (4) 제1사분면

4 (1) ⊥ (2) ⊃ (3) ⊂

5 (1) 15 km (2) 12시 30분 (3) 13시 30분

6 (1) $y=-3x$ (2) $y=-\frac{28}{x}$

7 (1) $y=\frac{1}{4}x$ (2) 28 cm

8 (1) ○ (2) × (3) ○ (4) ×

9 (1) $y=\frac{1}{2}x$ (2) $y=-\frac{3}{2}x$

10 (1) $y=\frac{96}{x}$ (2) 6줄

11 (1) ○ (2) × (3) ○ (4) ○

12 (1) $y=\frac{9}{x}$ (2) $y=-\frac{10}{x}$

익힘복

2~5쪽 (I. 소인수분해

1 (1) 소 (2) 소 (3) 합 (4) 소 (5) 합 (6) 합

2 (1) $\times$ (2) $\circ$ (3) $\circ$ (4) $\times$ (5) $\times$

3 (1) 말: 2, 지수: 5 (2) 말: 5, 지수: 9

4 (1) 6^4 (2) $2^3 \times 5^2$ (3) $7^2 \times 11^3$ (4) $\left(\frac{1}{5}\right)^5$
(5) $\left(\frac{1}{3}\right)^2 \times \left(\frac{1}{7}\right)^3$ (6) $\frac{1}{2^3 \times 3^2}$ 5 (1) 2×3^2 , 소인수: 2, 3 (2) $2 \times 3 \times 5$, 소인수: 2, 3, 5
(3) $2 \times 3 \times 7$, 소인수: 2, 3, 7 (4) $2^2 \times 5^2$, 소인수: 2, 5
(5) $2^2 \times 3^2 \times 5$, 소인수: 2, 3, 5 (6) $2^3 \times 3^3$, 소인수: 2, 3

6 (1) 1, 3, 7, 9, 21, 63

$\times$	1	7
1	1	7
3	3	21
3^2	9	63

(2) 1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, 108

$\times$	1	3	3^2	3^3
1	1	3	9	27
2	2	6	18	54
2^2	4	12	36	108

7 $\neg$, $\subset$, $\supset$

8 (1) 6개 (2) 18개 (3) 12개 (4) 16개

9 (1) 18의 약수: 1, 2, 3, 6, 9, 18
30의 약수: 1, 2, 3, 5, 6, 10, 15, 30
공약수: 1, 2, 3, 6, 최대공약수: 6
(2) 28의 약수: 1, 2, 4, 7, 14, 28
49의 약수: 1, 7, 49
공약수: 1, 7, 최대공약수: 7

10 (1) 1, 3, 9 (2) 1, 2, 3, 4, 6, 12 (3) 1, 2, 13, 26

11 $\neg$, $\subset$, $\supset$ 12 (1) $2^2 \times 5 \times 7$ (2) 3 (3) 3×5

13 (1) 6 (2) 8 (3) 4 (4) 12

14 (1) 2의 배수: 2, 4, 6, 8, 10, 12, ...

3의 배수: 3, 6, 9, 12, ...

공배수: 6, 12, ..., 최소공배수: 6

(2) 6의 배수: 6, 12, 18, 24, 30, 36, ...

9의 배수: 9, 18, 27, 36, ...

공배수: 18, 36, ..., 최소공배수: 18

(3) 12의 배수: 12, 24, 36, 48, 60, 72, ...

18의 배수: 18, 36, 54, 72, ...

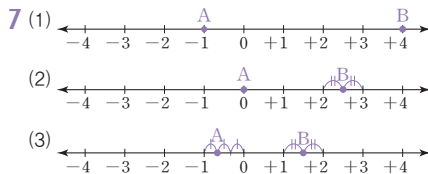
공배수: 36, 72, ..., 최소공배수: 36

15 (1) 10, 20, 30 (2) 14, 28, 42 (3) 25, 50, 75

16 (1) $2^2 \times 3^3 \times 5^2$ (2) $2^3 \times 3^2 \times 7^2$ (3) $2^2 \times 3^2 \times 5^2 \times 7$

17 (1) 45 (2) 420 (3) 480 (4) 270

6~16쪽 (II. 정수와 유리수

1 (1) -2 kg (2) $+50 \text{ m}$ (3) -3°C 2 (1) $+4$ (2) -6 (3) $+2.5$ (4) $-\frac{3}{7}$ (5) -0.4 3 (1) $+1$, $+\frac{5}{4}$ (2) -3.7 , -4 , -23 4 (1) $\frac{6}{3}$, $+12$ (2) -5 , $\frac{6}{3}$, 0 , $+12$ (3) -5 , $-\frac{1}{2}$
(4) $-\frac{1}{2}$, $+4.5$ (5) -5 , $\frac{6}{3}$, 0 , $+12$, $-\frac{1}{2}$, $+4.5$ 5 (1) $\circ$ (2) $\circ$ (3) $\times$ 6 (1) A: -3 , B: $+1$ (2) A: -4 , B: $+\frac{1}{2}$ (3) A: $-\frac{5}{2}$, B: $+3$ 8 (1) 6 (2) 8 (3) 2.7 (4) $\frac{3}{4}$ (5) $\frac{1}{10}$ 9 (1) -9 , $+9$ (2) -1.2 , $+1.2$ (3) 0 (4) $+4$ (5) $-\frac{2}{5}$ 10 (1) $<$ (2) $<$ (3) $>$ (4) $<$ (5) $>$ (6) $<$ (7) $>$ (8) $<$
(9) $>$ (10) $>$ 11 (1) $x > 3$ (2) $x \leq -3$ (3) $x \geq 5$ (4) $x \leq 1.5$ (5) $-7 \leq x < 4$
(6) $2 < x < \frac{7}{2}$ (7) $-3 \leq x \leq 5$ (8) $-\frac{2}{3} \leq x \leq \frac{11}{5}$ 12 (1) $+17$ (2) -14 (3) $+8.9$ (4) $-\frac{7}{9}$ (5) $+\frac{5}{8}$ (6) $-\frac{22}{15}$
(7) $+\frac{59}{30}$ 13 (1) -6 (2) $+1.7$ (3) -1.8 (4) $+\frac{5}{3}$ (5) $-\frac{3}{14}$
(6) $-\frac{5}{36}$ (7) $+\frac{11}{10}$ 14 (1) -12 (2) -4 (3) $+0.2$ (4) -0.4 (5) $+6$ (6) $+\frac{1}{3}$ 15 (1) -8 (2) -3.8 (3) $+\frac{1}{5}$ (4) $+16$ (5) $+\frac{29}{24}$ (6) $-\frac{1}{6}$ 16 (1) $+12$ (2) $+14$ (3) -3 (4) $-\frac{25}{14}$ (5) $+\frac{5}{12}$ (6) $+\frac{5}{3}$ 17 (1) 7 (2) -1 (3) 0.7 (4) $-\frac{2}{5}$ (5) 1 (6) $-\frac{3}{10}$ 18 (1) $+20$ (2) $+42$ (3) $+\frac{3}{10}$ (4) 0 (5) -6.4 (6) -30
(7) $-\frac{1}{2}$ 19 (1) $+350$ (2) -19 (3) $+\frac{20}{3}$ (4) $+\frac{7}{3}$ (5) $-\frac{15}{14}$ 20 (1) $+6$ (2) $+36$ (3) -15 (4) $+\frac{1}{2}$ (5) -168 (6) -5 21 (1) $+16$ (2) $-\frac{8}{9}$ (3) -18 (4) -0.05 (5) $+2$
(6) $-\frac{1}{2}$ 22 (1) -1313 (2) 2037 (3) 14 (4) 9 (5) -14 (6) 3223 (1) $+12$ (2) $+2$ (3) 0 (4) -1 (5) -5 (6) -0.7 (7) $+9$ 24 (1) $\frac{3}{5}$ (2) $-\frac{8}{7}$ (3) $\frac{1}{9}$ (4) -4 (5) $\frac{5}{11}$ (6) $-\frac{5}{4}$

25 (1) $+\frac{4}{3}$ (2) $-\frac{2}{15}$ (3) -22 (4) $+\frac{7}{10}$ (5) $+\frac{2}{3}$

26 (1) $-\frac{3}{2}$ (2) $\frac{2}{3}$ (3) $\frac{8}{3}$ (4) -15 (5) -4 (6) $\frac{3}{5}$

27 (1) 7 (2) -14 (3) 12 (4) 4 (5) -28 (6) -7

28 (1) -7 (2) 8 (3) $-\frac{9}{2}$ (4) -56 (5) 5 (6) -36

17~26쪽 III. 문자와 식

1 (1) $(1200 \times a + 600 \times b)$ 원 (2) $(36 - x)$ 명

(3) $(10000 - a \times 5)$ 원 (4) $(x \div 6)$ 원

(5) $(\frac{1}{2} \times a \times b)$ cm² (6) $(x \times 2)$ km

2 (1) $-ab$ (2) $4xy$ (3) $-5(a+b)$ (4) $0.1x^2y$

(5) $-3a^3b^2$ (6) $2x+6y$ (7) $5b^2-10$ (8) $-7x-y$

3 (1) $-\frac{x}{10}$ (2) $\frac{5b}{a}$ (3) $\frac{y}{2x-1}$ (4) $\frac{a}{8b}$ (5) $\frac{x}{yz}$

4 (1) $\frac{ab}{4}$ (2) $\frac{y^2}{x}$ (3) $\frac{7a}{bc}$ (4) $-x+\frac{3}{y}$ (5) $\frac{b}{2}+5(a-b)$

5 (1) 3 (2) -1 (3) 6 (4) 11 (5) -27 (6) -40 (7) 0 (8) 7

6 (1) $4x, -y, -5$ (2) -5 (3) 4 (4) -1

7 (1) $-x^2, 6x, -7$ (2) -7 (3) 6 (4) -1

8 $\perp, \sqsubset, \square$

9 (1) 3 (2) 1 (3) 2 (4) 1 (5) 3

10 (1) $\times$ (2) $\circ$ (3) $\times$ (4) $\circ$ (5) $\times$ (6) $\circ$

11 (1) $12x$ (2) $-18a$ (3) $20y$ (4) $12x$ (5) $-6b$

12 (1) $3x$ (2) $-3y$ (3) $4a$ (4) $-10b$ (5) $-\frac{2}{3}x$

13 (1) $\frac{1}{4}x-2$ (2) $-6y+2$ (3) $15-12a$ (4) $-42b-12$

(5) $7x-2$

14 (1) $a-4$ (2) $-b+2$ (3) $6x+16$ (4) $-4y+\frac{12}{7}$

(5) $-27x+3$

15 (1) x 와 $-6x$, 4와 -1 (2) $3x$ 와 $\frac{x}{2}$, -2 와 -3

(3) $6y^2$ 과 $-y^2$, $5y$ 와 $-y$ (4) $-4x$ 와 $6x$, $3y$ 와 $-2y$

16 (1) $8a$ (2) $-9b$ (3) $9x-7$ (4) $3y-2$ (5) $-a-2b$ (6) $x+4$

17 (1) $6x+2$ (2) $-x+9$ (3) $-3x+5$ (4) $16x-5$

(5) $9x-1$ (6) $-7x+11$ (7) $2x-13$ (8) $7x-2$

(9) $-3x+19$ (10) $14x-22$ (11) $-16x+2$ (12) $-2x+4$

18 (1) $\frac{5}{9}x+\frac{10}{9}$ (2) $\frac{7}{6}x+\frac{11}{6}$ (3) $\frac{17}{12}x-\frac{5}{4}$ (4) $\frac{1}{15}x-\frac{2}{3}$

19 $\perp, \simeq, \square$

20 (1) $3x+2=2x$ (2) $7000x=42000$ (3) $2(x+30)=260$

(4) $4x=32$ (5) $48-5x=3$

21 (1) $\circ$ (2) $\times$ (3) $\times$ (4) $\circ$ (5) $\circ$

22 (1) $\times$ (2) $\times$ (3) $\circ$ (4) $\circ$ (5) $\circ$

23 (1) $\circ$ (2) $\circ$ (3) $\times$ (4) $\times$ (5) $\times$

24 (1) $a=2, b=7$ (2) $a=-1, b=3$ (3) $a=4, b=-5$

(4) $a=1, b=-3$ (5) $a=4, b=2$

25 (1) $\circ$ (2) $\circ$ (3) $\times$ (4) $\times$ (5) $\circ$

26 (1) $x=7$ (2) $x=1$ (3) $x=12$ (4) $x=30$

27 (1) $-x=4-6$ (2) $2x-6x=5$ (3) $4x-7x=-3-5$

(4) $-x+5x=4-12$

28 (1) $\circ$ (2) $\circ$ (3) $\times$ (4) $\times$ (5) $\times$ (6) $\circ$

29 (1) $x=-2$ (2) $x=5$ (3) $x=2$ (4) $x=-1$

(5) $x=5$ (6) $x=-13$ (7) $x=2$

30 (1) $x=-2$ (2) $x=-3$ (3) $x=6$ (4) $x=-2$

(5) $x=-10$ (6) $x=2$

31 3

32 41, 42, 43

33 16세

34 3년 후

35 4 km

36 600 m

37 10 km

38 3 km

27~31쪽 IV. 좌표평면과 그래프

1 A($-\frac{3}{2}$) (또는 A(-1.5)), B(0), C(4)

2 (1) A(0, 3), B(-3, 1), C(-2, -3), D(2, -2)

(2) A(2, 3), B(-3, 4), C(-2, -2), D(3, -2)

(3) A(3, 0), B(0, 0), C(-4, 0), D(0, -3)

3 (1) 제1사분면 (2) 제3사분면 (3) 제2사분면 (4) 제4사분면

(5) 제2사분면 (6) 제1사분면 (7) 제4사분면

4 (1) 제4사분면 (2) 제1사분면 (3) 제3사분면 (4) 제2사분면

(5) 제3사분면

5 $\perp$

6 (1) $\sqsubset$ (2) $\supset$ (3) $\perp$ 7 (1) 시속 80 km (2) 60분 (3) 2번

8 (1) 110분 (2) 4 km (3) 30분

9 (1) 600, 1200, 1800, 2400, 3000, $y=600x$

(2) 4, 8, 12, 16, 20, $y=4x$

10 (1) $y=700x$ (2) $y=10x$

11 (1) $y=5x$ (2) $y=-\frac{1}{4}x$

12 (1) $y=3x$ (2) 18 cm

13 (1) $y=300x$ (2) 5분

14 (1) $y=2, 2x$ (2) 14 kg

15 (1) 제1사분면과 제3사분면 (2) 제1사분면과 제3사분면

(3) 제2사분면과 제4사분면

16 (1) $\times$ (2) $\circ$ (3) $\times$

17 (1) $\frac{3}{4}$ (2) -2

18 (1) 96, 48, 32, 24, $\frac{96}{5}, y=\frac{96}{x}$

(2) 2, 1, $\frac{2}{3}, \frac{1}{2}, \frac{2}{5}, y=\frac{2}{x}$

19 (1) $y=\frac{50}{x}$ (2) $y=\frac{20}{x}$

20 (1) $y=\frac{75}{x}$ (2) $y=-\frac{28}{x}$

21 (1) $y=\frac{600}{x}$ (2) 50 cm

22 (1) $y=\frac{340}{x}$ (2) 68 m

23 (1) $y=\frac{300}{x}$ (2) 50대

24 (1) 제1사분면과 제3사분면 (2) 제2사분면과 제4사분면

(3) 제2사분면과 제4사분면

25 (1) $\times$ (2) $\circ$ (3) $\times$

26 (1) 18 (2) -35