

1 / 삼각비

8~22쪽 001 (1)  $\overline{BC}$ , 4 (2)  $\overline{AB}$ , 3 (3)  $\overline{AB}$ ,  $\frac{4}{3}$

002 (1)  $\frac{\sqrt{7}}{4}$  (2)  $\frac{3}{4}$  (3)  $\frac{\sqrt{7}}{3}$  003 (1)  $\frac{\sqrt{6}}{3}$  (2)  $\frac{\sqrt{3}}{3}$  (3)  $\sqrt{2}$

004 (1)  $\frac{\sqrt{11}}{6}$  (2)  $\frac{5}{6}$  (3)  $\frac{\sqrt{11}}{5}$  005 (1)  $\frac{1}{2}$  (2)  $\frac{\sqrt{3}}{2}$  (3)  $\frac{\sqrt{3}}{3}$

006 (1)  $\frac{\sqrt{3}}{2}$  (2)  $\frac{1}{2}$  (3)  $\sqrt{3}$

007 12, 13,  $\frac{5}{13}$ ,  $\frac{12}{13}$ ,  $\frac{5}{12}$  / 

008 (1)  $\frac{\sqrt{5}}{3}$  (2)  $\frac{2}{3}$  (3)  $\frac{\sqrt{5}}{2}$  009 (1)  $\frac{15}{17}$  (2)  $\frac{8}{17}$  (3)  $\frac{15}{8}$

010 (1)  $\frac{\sqrt{3}}{3}$  (2)  $\frac{\sqrt{6}}{3}$  (3)  $\frac{\sqrt{2}}{2}$  011 (1)  $\frac{2}{3}$  (2)  $\frac{\sqrt{5}}{3}$  (3)  $\frac{2\sqrt{5}}{5}$

012 (1)  $\frac{\sqrt{2}}{2}$  (2)  $\frac{\sqrt{2}}{2}$  (3) 1 013  $\frac{7}{9}$  014 6, 3, 3,  $3\sqrt{3}$

015  $x=4\sqrt{2}$ ,  $y=4\sqrt{2}$  016  $x=2\sqrt{5}$ ,  $y=6$

017  $x=4\sqrt{6}$ ,  $y=10$  018  $x=2\sqrt{11}$ ,  $y=12$

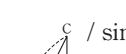
019  $x=9$ ,  $y=3\sqrt{7}$  020  $10+2\sqrt{5}$

021  $\sqrt{5}$ ,  $\sqrt{5}$ ,  $\sqrt{5}$ ,  $\frac{2\sqrt{5}}{5}$

022  /  $\sin A = \frac{\sqrt{11}}{6}$ ,  $\tan A = \frac{\sqrt{11}}{5}$

023  /  $\sin A = \frac{8}{17}$ ,  $\cos A = \frac{15}{17}$

024  /  $\cos A = \frac{\sqrt{3}}{3}$ ,  $\tan A = \sqrt{2}$

025  /  $\sin A = \frac{2\sqrt{5}}{5}$ ,  $\tan A = 2$

026  /  $\sin A = \frac{\sqrt{21}}{7}$ ,  $\cos A = \frac{2\sqrt{7}}{7}$

027  $\frac{3\sqrt{10}}{10}$  028  $\angle BCA$ ,  $\angle ABC$  029 5

030 (1)  $\overline{AB}$ ,  $\frac{3}{5}$  (2)  $\overline{AC}$ ,  $\frac{4}{5}$  (3)  $\overline{AC}$ ,  $\frac{3}{4}$

031  $\sin y = \frac{4}{5}$ ,  $\cos y = \frac{3}{5}$ ,  $\tan y = \frac{4}{3}$

032  $\sin x = \frac{1}{2}$ ,  $\cos x = \frac{\sqrt{3}}{2}$ ,  $\tan x = \frac{\sqrt{3}}{3}$

033  $\sin y = \frac{\sqrt{3}}{2}$ ,  $\cos y = \frac{1}{2}$ ,  $\tan y = \sqrt{3}$

034  $\sin x = \frac{15}{17}$ ,  $\cos x = \frac{8}{17}$ ,  $\tan x = \frac{15}{8}$

035  $\sin y = \frac{8}{17}$ ,  $\cos y = \frac{15}{17}$ ,  $\tan y = \frac{8}{15}$

036  $\angle BCA$  037  $\sin x = \frac{12}{13}$ ,  $\cos x = \frac{5}{13}$ ,  $\tan x = \frac{12}{5}$

038  $\sin x = \frac{4}{5}$ ,  $\cos x = \frac{3}{5}$ ,  $\tan x = \frac{4}{3}$

039  $\sin x = \frac{5}{6}$ ,  $\cos x = \frac{\sqrt{11}}{6}$ ,  $\tan x = \frac{5\sqrt{11}}{11}$

040  $\angle ACB$  041  $\sin x = \frac{4}{5}$ ,  $\cos x = \frac{3}{5}$ ,  $\tan x = \frac{4}{3}$

042  $\sin x = \frac{3}{5}$ ,  $\cos x = \frac{4}{5}$ ,  $\tan x = \frac{3}{4}$

043  $\sin x = \frac{2\sqrt{13}}{13}$ ,  $\cos x = \frac{3\sqrt{13}}{13}$ ,  $\tan x = \frac{2}{3}$

044  $3, 3\sqrt{2}, 3\sqrt{2}, 3\sqrt{3}$   


045  $\sin x = \frac{\sqrt{3}}{3}$ ,  $\cos x = \frac{\sqrt{6}}{3}$ ,  $\tan x = \frac{\sqrt{2}}{2}$

046  $\sin x = \frac{\sqrt{2}}{2}$ ,  $\cos x = \frac{\sqrt{2}}{2}$ ,  $\tan x = 1$

047  $\sin x = \frac{4}{9}$ ,  $\cos x = \frac{\sqrt{65}}{9}$ ,  $\tan x = \frac{4\sqrt{65}}{65}$

048 1 049  $\frac{\sqrt{6}}{6}$  050 -1 051 1 052  $\frac{\sqrt{6}}{4}$  053  $\frac{1}{2}$

054  $-\frac{1}{4}$  055 10,  $\sqrt{2}$ ,  $5\sqrt{2}$ , 10,  $\sqrt{2}$ ,  $5\sqrt{2}$  056  $x=2\sqrt{3}$ ,  $y=2$

057  $x=3\sqrt{3}$ ,  $y=6\sqrt{3}$  058 ① 8, 1, 4 ② 4,  $\sqrt{2}$ ,  $4\sqrt{2}$

059  $x=8\sqrt{3}$ ,  $y=12$  060  $x=6$ ,  $y=2\sqrt{3}$

061  $x=7\sqrt{3}$ ,  $y=14\sqrt{3}$  062 6 063  $\frac{3\sqrt{6}}{2}$

064  $2\sqrt{3}$  065  $\sqrt{5}$  066  $\frac{\sqrt{3}}{3}$ , 5,  $\frac{\sqrt{3}}{3}$ , 5 067  $y=x+6$

068  $y=\sqrt{3}x+2\sqrt{3}$  069  $\sqrt{3}$ ,  $\sqrt{3}$ ,  $\sqrt{3}$ , -4,  $4\sqrt{3}$ ,  $\sqrt{3}$ ,  $4\sqrt{3}$

070  $y=\frac{\sqrt{3}}{3}x+\sqrt{3}$  071  $y=x+9$  072  $\overline{BC}$ ,  $\overline{BC}$

073  $\overline{DE}$  074  $\overline{AB}$  075  $\overline{BC}$  076  $y$ ,  $y$ ,  $\overline{AB}$ ,  $\overline{AB}$  077  $\overline{BC}$

078  $\overline{OA}$ , 0.60, 0.60 079 0.80 080 0.75 081 0.80 082 0.60

083 1 084 1 085 0 086 1 087  $\sqrt{3}$  088  $\sqrt{2}$

089 3 090 0 091  $\frac{1}{2}$  092  $\frac{5}{4}$  093 < 094 >

095 < 096 < 097 > 098 < 099  $\times$  100  $\times$

101  $\circ$  102  $\circ$  103  $\circ$

104  $\sin 23^\circ$ ,  $\cos 23^\circ$ ,  $\sin 90^\circ$ ,  $\tan 49^\circ$

105  $\sin 0^\circ$ ,  $\cos 4^\circ$ ,  $\tan 54^\circ$ ,  $\tan 79^\circ$

106 0.7771 107 0.6157 108 1.2799

109 0.6018 110 0.8090 111  $64^\circ$  112  $65^\circ$

113  $65^\circ$  114  $63^\circ$  115  $66^\circ$  116 65, 61, 0.6561, 41

117  $40^\circ$  118  $41^\circ$  119  $42^\circ$  120 0.4695, 46, 95

121 4.848 122 44.55 123 11.086

23~25쪽 기본 문제  $\times$  확인하기

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

2 (1)  $x=8$ ,  $y=2\sqrt{7}$  (2)  $x=3\sqrt{3}$ ,  $y=3\sqrt{6}$  (3)  $x=\frac{5}{2}$ ,  $y=\frac{\sqrt{89}}{2}$

3 (1)  $\cos A = \frac{5}{6}$ ,  $\tan A = \frac{\sqrt{11}}{5}$  (2)  $\sin A = \frac{\sqrt{7}}{4}$ ,  $\tan A = \frac{\sqrt{7}}{3}$

(3)  $\sin A = \frac{\sqrt{5}}{3}$ ,  $\cos A = \frac{2}{3}$

4 (1)  $\sin x = \frac{\sqrt{21}}{5}$ ,  $\cos x = \frac{2}{5}$ ,  $\tan x = \frac{\sqrt{21}}{2}$

(2)  $\sin y = \frac{2}{5}$ ,  $\cos y = \frac{\sqrt{21}}{5}$ ,  $\tan y = \frac{2\sqrt{21}}{2}$

5 (1)  $\sin x = \frac{4}{5}$ ,  $\cos x = \frac{3}{5}$ ,  $\tan x = \frac{4}{3}$

(2)  $\sin x = \frac{3\sqrt{2}}{5}$ ,  $\cos x = \frac{\sqrt{7}}{5}$ ,  $\tan x = \frac{3\sqrt{14}}{7}$

6 (1)  $x=8$ ,  $y=4$  (2)  $x=\sqrt{6}$ ,  $y=\sqrt{3}$

7 (1)  $x=9$ ,  $y=9\sqrt{2}$  (2)  $x=4\sqrt{3}$ ,  $y=4$  (3)  $x=6$ ,  $y=2\sqrt{3}$

8 (1)  $\frac{\sqrt{3}}{3}$  (2)  $y=\frac{\sqrt{3}}{3}x+8$

9 (1) 0.7880 (2) 0.6157 (3) 1.2799 (4) 0.6157 (5) 0.7880

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

11 (1) < (2) > (3) < (4) <

12 (1) 0.5150 (2) 0.8192 (3) 0.6009

13 (1)  $34^\circ$  (2)  $33^\circ$  (3)  $32^\circ$

14 (1)  $31^\circ$  (2)  $32^\circ$  (3)  $33^\circ$

15 (1) 5.446 (2) 14.004 (3) 4.145

26~27쪽 학교 시험 문제  $\times$  확인하기

1  $\frac{\sqrt{10}+\sqrt{15}}{5}$  2 ④ 3 ② 4 ② 5  $\frac{\sqrt{3}+\sqrt{6}}{3}$

6 ④ 7  $y=\sqrt{3}x+2\sqrt{3}$  8 ④ 9 ⑤ 10  $\tan 68^\circ$

11 ③ 12  $36^\circ$  13 ①

2 / 삼각비의 활용

30~40쪽 001 10,  $10\sin 33^\circ$  002 4,  $\frac{4}{\cos 53^\circ}$

003 13,  $13\tan 47^\circ$  004  $x=5\cos 62^\circ$ ,  $y=5\sin 62^\circ$

005  $x=10\tan 55^\circ$ ,  $y=\frac{10}{\cos 55^\circ}$

006  $x=\frac{8}{\tan 36^\circ}$ ,  $y=\frac{8}{\sin 36^\circ}$

007 1.92 008 1.38 009 8 010 20, 20, 14.6 011 27 m

012 (1) 5.7 m (2) 7.2 m

013 (1)  $3\sqrt{3}$  m (2)  $6\sqrt{3}$  m (3)  $9\sqrt{3}$  m

014 14.04 m

015 ① 60,  $4\sqrt{3}$ , 60, 4, 6 ②  $4\sqrt{3}$ , 6,  $2\sqrt{21}$

016  $2\sqrt{7}$  017 5 018  $5\sqrt{7}$

019 ① 180, 60 ② 45,  $3\sqrt{2}$  ③ 60,  $2\sqrt{6}$

020  $8\sqrt{2}$  021  $2\sqrt{6}$  022  $10\sqrt{2}$  023  $2\sqrt{17}$  m

024  $3\sqrt{7}$  km 025  $4\sqrt{6}$  m 026  $30\sqrt{2}$  m

027  $(15+5\sqrt{3})$  m

028 ① 30,  $\sqrt{3}h$  ② 45,  $h$  ③  $\sqrt{3}+1$ ,  $6(\sqrt{3}-1)$

029  $2(3-\sqrt{3})$  030  $5(\sqrt{3}-1)$  031  $\frac{15}{4}$

032  $\frac{9(3-\sqrt{3})}{2}$  m

033 ① 30,  $\sqrt{3}h$  ② 60,  $\frac{\sqrt{3}}{3}h$  ③  $\frac{2\sqrt{3}}{3}$ ,  $5\sqrt{3}$

034  $4(\sqrt{3}+1)$  035  $2(3+\sqrt{3})$  036  $7(\sqrt{3}+1)$

037  $2\sqrt{3}$  m 038 4, 60,  $6\sqrt{3}$  039  $14\sqrt{2}$

040 15 041  $21\sqrt{2}$  042 25 043  $2\sqrt{3}$

044 8, 120, 8, 60,  $10\sqrt{3}$  045  $3\sqrt{6}$  046  $3\sqrt{3}$

047 9 048 (1)  $4\sqrt{3}$  (2)  $12\sqrt{3}$  (3)  $16\sqrt{3}$  049  $\frac{7}{2}$

050  $14\sqrt{3}$  051  $12\sqrt{3}$  052  $6\sqrt{2}$  053  $8\sqrt{3}$

054 20 055  $27\sqrt{2}$  056  $50\sqrt{2}$  cm<sup>2</sup> 057  $14\sqrt{3}$

058 140 059  $30\sqrt{2}$  060  $18\sqrt{3}$  061  $45\sqrt{2}$

062 13 cm

41쪽 기본 문제  $\times$  확인하기

1 (1) 3.8 (2) 5.3 (3) 20 2 (1)  $2\sqrt{7}$  (2) 6

3 (1)  $3(3-\sqrt{3})$  (2)  $6\sqrt{3}$  4 (1)  $9\sqrt{3}$  (2)  $\frac{63}{2}$

5 (1)  $56\sqrt{3}$  (2) 7 6 (1)  $4\sqrt{10}$  (2) 15

7 (1)  $\frac{45\sqrt{3}}{2}$  (2)  $56\sqrt{2}$

42~43쪽 학교 시험 문제  $\times$  확인하기

1 ④ 2 ③ 3 ② 4  $5\sqrt{2}$  5 ⑤ 6 ②

7 ③ 8  $60^\circ$  9 ④ 10 ⑤

11 (1)  $4\sqrt{3}$  (2)  $2\sqrt{6}$  (3)  $8\sqrt{3}$ , 12 (4)  $8\sqrt{3}+12$  12 ③

3 / 원과 직선

46~57쪽 001 4 002 3 003 12 004 7

005 3, 4, 4, 8 006  $2\sqrt{21}$  007 13 008  $\sqrt{11}$

009 17, 17, 15, 15, 30 010 8 011  $8\sqrt{3}$  012  $12\sqrt{3}$

013 8,  $x-4$ , 8,  $x-4$ , 10 014  $2\sqrt{6}$  015 15 016 6

017  /  $r-2$ ,  $r-2$ , 5, 5 018 13 019 8

020 5 021  / 20, 20, 10, 20, 022  $4\sqrt{3}$  023  $14\sqrt{3}$

024 12 025 6 026 10 027 8

028 7 029 5 030 6 031 3, 4, 4, 8, 8, 8 032  $4\sqrt{5}$

033  $\sqrt{13}$  034  $2\sqrt{6}$  035 이등변, 70 036  $55^\circ$  037  $65^\circ$

038  $70^\circ$  039  $30^\circ$  040  $135^\circ$  041  $245^\circ$  042  $3\sqrt{5}$  043  $8\sqrt{2}$

044 3 045 5 046 13 047 6 048 4 049  $4\sqrt{3}$

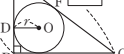
050  $2\sqrt{14}$  051  $3\sqrt{5}$  052 15 053  $\overline{PB}$ , 이등변, 70, 55

054  $63^\circ$  055  $50^\circ$  056  $21^\circ$  057 7, 7, 3, 3, 5 058 7

059 11 060 9 061 4 062 5 063 12 064 7

065 40 067  /  $14-x$ , 6 068 3

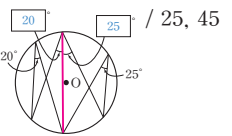
066 16 069 8 070 5

071  / 10,  $8-r$ , 2 072 3

073 3 074 30

075 7 076 10 077 15 078 8 079 2 080 30

4 / 원주각

- 64~79쪽
- 001  $\frac{1}{2}, \frac{1}{2}, 70$ 002 62°003 50°
- 004 35°005 105°006 115°007 80°008 95°
- 009 2, 2, 120010 54°011 82°012 218°013 140°
- 014 220, 110, 220, 140, 70015  $\angle x=138^\circ, \angle y=111^\circ$
- 016  $\angle x=77^\circ, \angle y=103^\circ$ 017  $\angle x=260^\circ, \angle y=50^\circ$
- 018 56, 112,  $\overline{OB}$ , 112, 34019 50°020 18°021 25°
- 022 9023 50, 130, 130, 65024 68°025 40°
- 026 60°027  $\angle x=35^\circ, \angle y=50^\circ$
- 028  $\angle x=60^\circ, \angle y=25^\circ$ 029  $\angle x=40^\circ, \angle y=30^\circ$
- 030  $\angle x=45^\circ, \angle y=90^\circ$ 031  $\angle x=30^\circ, \angle y=60^\circ$
- 032  $\angle x=52^\circ, \angle y=104^\circ$ 033 50, 50, 85
- 034  $\angle x=58^\circ, \angle y=124^\circ$ 035  $\angle x=42^\circ, \angle y=33^\circ$
- 036  $\angle x=26^\circ, \angle y=58^\circ$
- 037  / 25, 45038 60°039 23°040 25°
- 041 96°042 57°043 28°
- 044 90, 35, 90, 55045 67°
- 046 61°047 90, 60, 90, 60, 30048 37°049 51°
- 050 48°051 32052 30053 6054 15055 40
- 056 70057 20058 24059 24060 68061 16
- 062 10063 21064 3, 4, 40, 3, 60, 4, 80
- 065  $\angle x=45^\circ, \angle y=60^\circ, \angle z=75^\circ$
- 066  $\angle x=60^\circ, \angle y=30^\circ, \angle z=90^\circ$
- 067 ○068 ×069 ○070 ×071 80°072 20°
- 073 70°074 75°075  $\angle x=80^\circ, \angle y=120^\circ$
- 076  $\angle x=95^\circ, \angle y=105^\circ$ 077  $\angle x=82^\circ, \angle y=70^\circ$
- 078 180, 65, 65, 115079 110°080 40°081 118°
- 082 125°083  $\frac{1}{2}, \frac{1}{2}, 40, 40, 140$
- 084  $\angle x=70^\circ, \angle y=110^\circ$ 085 83°086 105°087 45°
- 088 30°089 180, 80, 80090 60°091 89°092 80°
- 093 60, 30, 30, 85, 85, 95094 105°095 120°096 85°
- 097 ×098 ○099 ×100 ○101 90°102 105°
- 103 50°104 36°105 50°106 95°107 100°108 45°
- 109 80°110 20°111 110°112 80°113 30°114 70°
- 115 55°116 30°117 65°118 70°
- 119 CPT, 60, 105, 75, 60, 75, 45
- 120  $\angle x=45^\circ, \angle y=95^\circ$ 121  $\angle x=50^\circ, \angle y=110^\circ$
- 122  $\angle x=40^\circ, \angle y=55^\circ$ 123 90, 63, 90, 63, 27, 27, 36
- 124 20°125 26°126 40°

80~81쪽 기본 문제 × 확인하기

- 1 (1) 32° (2) 101° (3) 66° (4) 226°
- 2 (1) 77° (2) 64°
- 3 (1)  $\angle x=25^\circ, \angle y=50^\circ$  (2)  $\angle x=28^\circ, \angle y=56^\circ$
- 4 (1) 65° (2) 53°
- 5 (1) 50° (2) 52°
- 6 (1) 22 (2) 18
- 7 (1) ○ (2) × (3) ○ (4) ○
- 8 (1)  $\angle x=105^\circ, \angle y=48^\circ$  (2)  $\angle x=75^\circ, \angle y=150^\circ$   
(3)  $\angle x=95^\circ, \angle y=95^\circ$  (4)  $\angle x=50^\circ, \angle y=83^\circ$
- 9 (1) 117° (2) 52° (3) 40° (4) 23°
- 10 (1) 28° (2) 50°

82~83쪽 학교 시험 문제 × 확인하기

- 1 ③2 70°3 ②4 ①5 84°6 ①
- 7 ④8 (1) 78° (2) 80°9 ③10 65°11 ⑤
- 12 ㄱ, ㄹ13 ②14 26°

5 / 산포도

- 86~91쪽
- 001 2, -1, 1
- 002 -8, 10, -6, 0, 4003 9, 2, 8, 11, 5
- 004 15, 16, 23, 12, 14005 8 / -3, 4, -2, 1
- 006 12 / -4, 2, -1, 3007 25 / -10, 2, 11, -8, 5
- 008 36 / 4, -6, 2, 1, -1009 0, -6010 2
- 011 -9012 4013 0014 -2
- 015 ① 0, -2 ② -2, 73016 24회017 7회
- 018 169cm
- 019 ① 3 ② -1, 0, 2, -2, 1 ③ 10 ④ 2 ⑤  $\sqrt{2}$
- 020 ① 16 ② 1, 0, -2, 2, -4, 3 ③ 34 ④  $\frac{17}{3}$  ⑤  $\frac{\sqrt{51}}{3}$
- 021 분산: 6, 표준편차:  $\sqrt{6}$ 022 분산: 28, 표준편차:  $2\sqrt{7}$
- 023 분산: 18, 표준편차:  $3\sqrt{2}$ 024 분산: 12, 표준편차:  $2\sqrt{3}$ 분
- 025 ① -1 ② 20 ③ 5 ④  $\sqrt{5}$
- 026 분산:  $\frac{15}{2}$ , 표준편차:  $\frac{\sqrt{30}}{2}$ 027 분산: 16, 표준편차: 4
- 028 분산:  $\frac{28}{3}$ , 표준편차:  $\frac{2\sqrt{21}}{3}$
- 029 ① 3 ② 30 ③ 6 ④  $\sqrt{6}$ 030 분산:  $\frac{16}{3}$ , 표준편차:  $\frac{4\sqrt{3}}{3}$
- 031 분산:  $\frac{14}{3}$ , 표준편차:  $\frac{\sqrt{42}}{3}$ 032 분산: 28, 표준편차:  $2\sqrt{7}$
- 033 ㄹ034 ㄷ035 C 모둠036 A 모둠
- 037 ×038 ○039 ○040 ×041 ×042 ○
- 043 ○044 ×045 ○046 ×047 ×048 ○
- 049 ×050 ×051 ○052 ○

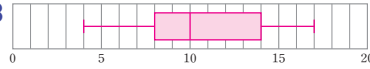
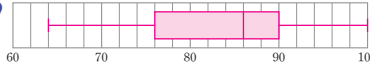
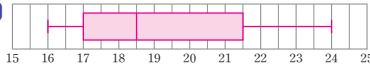
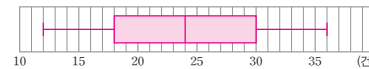
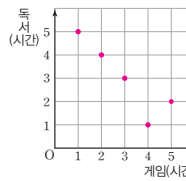
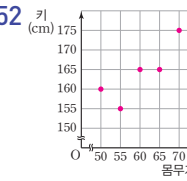
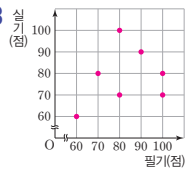
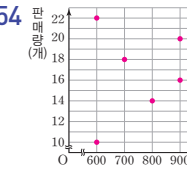
92쪽 기본 문제 × 확인하기

- 1 (1) 21 / -8, 2, 6, -6, 6 (2) 11 / 7, -5, 4, 3, -3, -6
- 2 (1) -7 (2) 1
- 3 (1) 71점 (2) 78점
- 4 (1) 분산: 6.8, 표준편차:  $\sqrt{6.8}$  (2) 분산: 32, 표준편차:  $4\sqrt{2}$
- 5 (1) 분산: 6, 표준편차:  $\sqrt{6}$  (2) 분산: 31.6, 표준편차:  $\sqrt{31.6}$
- 6 (1) 분산:  $\frac{10}{3}$ , 표준편차:  $\frac{\sqrt{30}}{3}$  (2) 분산:  $\frac{25}{3}$ , 표준편차:  $\frac{5\sqrt{3}}{3}$
- 7 (1) 3반 (2) 1반
- 8 (1) × (2) × (3) ○ (4) ×

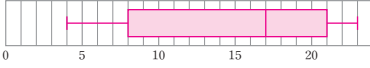
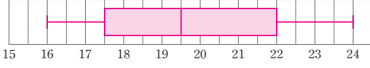
93쪽 학교 시험 문제 × 확인하기

- 1 ②2  $\frac{23}{3}$ 3  $\sqrt{22}$ 점4 ⑤5 ㄷ, ㄴ6 ⑤
- 7 ④

6 / 상자그림과 산점도

- 96~106쪽
- 001 42002 38003 53004 9
- 005 3006 10007 6, 8, 9, 11, 14, 17, 19, 23, 27
- 008 6개009 27개010 14개011 8.5개012 21개013 21개
- 014 12.5개015 14, 19, 22, 26, 28, 32, 33, 39, 45, 47
- 016 14세017 47세018 30세019 22세020 39세021 33세
- 022 17세023 45024 11, 4, 6, 17, 15
- 025  $a=7, b=16$ 026  $a=11, b=15$ 027  $a=28, b=34$
- 028 
- 029 
- 030 
- 031 12건, 18건, 24건, 30건, 36건 /  (2)
- 032 2시간, 4시간, 9시간, 15시간, 18시간 /  (시간)
- 033 54점034 24점035 88점036 약 50%037 ㉢
- 038 17시간039 10시간040 13시간
- 041 8시간042 약 25%043 2점044 A반
- 045 B반046 (1) × (2) ○ (3) ×047 5명
- 048 편의점 A049 편의점 B
- 050 (1) × (2) × (3) ○
- 051 
- 052 
- 053 
- 054 
- 055 3명056 1명057 4명058 5명059 3명060 2명
- 061 5명062 35회063 20%064 5명065 5회066 4명
- 067  $\frac{1}{4}$ 068 40%069 1.5070 증가 / ㄱ, ㄹ
- 071 감소 / ㄴ, ㄹ072 ㄷ, ㄱ073 ㄱ074 ㄹ
- 075 양076 음077 ×078 ×079 음080 ×
- 081 음082 양083 ㄹ084 ㄱ085 ㄱ086 ④
- 087 ×088 ○089 ○090 ○091 양의 상관관계
- 092 A093 B094 E

107~108쪽 기본 문제 × 확인하기

- 1 (1) 제1사분위수: 12, 제2사분위수: 16.5, 제3사분위수: 20  
(2) 제1사분위수: 37.5, 제2사분위수: 41, 제3사분위수: 46  
(3) 제1사분위수: 4, 제2사분위수: 11, 제3사분위수: 17
- 2 (1)   
(2) 
- 3 (1) 22 (2) 12 (3) 50 (4) 36
- 4 (1) 5g (2) 농장 B (3) 농장 A
- 5 (1) 4명 (2) 90점 (3) 4명 (4)  $\frac{3}{25}$  (5) 44% (6) 40점
- 6 (1) 양 (2) 음 (3) × (4) 양 (5) 음
- 7 (1) ○ (2) × (3) ○ (4) ○ (5) ×

109~110쪽 학교 시험 문제 × 확인하기

- 1 ④2 ③3 B4 ①5 ②, ③6 ③
- 7 ②8 4m9 ④10 ⑤11 ③

