

01 8쪽 삼각비

 \triangle ਦੁਆ 0001 $\sin A = \frac{5}{12}$, $\cos A = \frac{12}{12}$, $\tan A = \frac{5}{12}$

0002 $\sin B = \frac{12}{13}$, $\cos B = \frac{5}{13}$, $\tan B = \frac{12}{5}$ **0003** $2\sqrt{5}$

0004 sin $C = \frac{\sqrt{5}}{5}$, cos $C = \frac{2\sqrt{5}}{5}$, tan $C = \frac{1}{2}$ **0005** 6

0007 ∠C 0008 $\sin x = \frac{4}{5}$, $\cos x = \frac{3}{5}$, $\tan x = \frac{4}{3}$

 $\frac{5\sqrt{3}}{6}$

0011 1 **0012** $\sqrt{2}$ **0013** $\sqrt{3}$ **0014** 60° 00100

0017 x=4, $y=4\sqrt{3}$ **0018** $x=2\sqrt{2}$, y=40016 30°

0019 0.5736

0020 0.8192

0021 0.7002

0022 0 8192

0023 0.5736

0024

삼각비 A	0°	30°	45°	60°	90°
$\sin A$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
cos A	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
tan A	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	X

0025 2 0026 0 0027 1 0028 0 0029 < 0030 > 0031 < 0032 < 0033 > 0034 < 0035 < 0036 22 0037 25 0038 24

0040 $\frac{\sqrt{2}}{3}$ 0041 ④ 0042 $\frac{\sqrt{6}}{3}$ 0043 ① D CHAIN 0039 (4)

0046 54 0047 ③ 0048 $\frac{\sqrt{2}}{3}$ 0049 $\frac{8}{15}$ 0045 4 $0044\frac{4}{5}$

0052 ③ 0053 $\frac{\sqrt{11}}{6}$ 0054 ⑤ $\frac{2\sqrt{5}}{5}$ 0051 4

0058 $\frac{24}{25}$ **0059** ② 0061 $\frac{\sqrt{39}}{5}$ 0056 $\frac{15}{8}$ $0057 \frac{7}{5}$ $0060\frac{1}{5}$

0064 $\frac{7}{9}$ 0065 $\frac{3\sqrt{7}}{16}$ 0066 2 0067 $\frac{5\sqrt{29}}{29}$ 0063 ⑤ 0062 3

 $0070 \frac{\sqrt{6}}{2}$ 0071 4 0072 $\frac{2\sqrt{3}}{2}$ 0073 3 0068 (5) 0069 2

 $0074 \frac{\sqrt{6}}{2}$ 0075 ③ 0076 ③ 0077 2, 5 0078 1 0079 - 4

0080 2 0081 3 0082 3 0083 30° 00841 0085 10°

0086 3 0088 5√7 cm $0087 \ 8\sqrt{6}$ 0089 (2) 0090 (2) **0091** $\frac{16\sqrt{3}}{2}$ cm² **0092** 2√3 **0093** ① 0094 2 0095 $2+\sqrt{3}$

0099 $\frac{\sqrt{3}}{2}$ 0098 y = x - 30100 4 $0096\sqrt{2}+1$ 0097 (5)

0103 ⑤ 0104 (¬), (□) 0105 ③ $0106\frac{1}{4}$ 0101 (5) 0102 4

0108 (5) $0109\frac{1}{2}$ 0110 ④ 0111 (5) 0112 3 **0114** sin 23°, cos 0°, tan 50°, tan 75° 0113 (2) 0115 1

0116 4 0117 (5) 0118 30° 0119 4 0120 1.345 0121 4

0122 24° 0123 4.695 0124 36.325 0125 ①

0107 ③

0126 \(\bar{\omega} \) 0127 $\frac{5\sqrt{3}}{0}$ 0128 \(\bar{\omega} \) 0129 $\frac{8\sqrt{5}}{5}$ 0130 \(\bar{\omega} \) CEPAI 0131 $\frac{\sqrt{2}}{2}$ 0132 1 **0133** $75(\sqrt{3}-1)$ **0134** ③ 0135 3 0136 $\frac{\sqrt{6}-\sqrt{2}}{4}$ 0137 $\frac{3+2\sqrt{3}}{6}$ 0138 $\boxed{5}$

0140 42° **0141** (1) $-2+2\sqrt{5}$ (2) $\frac{1+\sqrt{5}}{4}$ **0142** $\frac{5}{13}$

0143 $y = \frac{3}{4}x + \frac{7}{2}$ **0144** $\frac{\sqrt{2}}{3}$ **0145** $-\frac{\sqrt{3}}{12}$

0146 $\frac{9\sqrt{3}}{2}$ cm² 0147 $36\sqrt{3}$ 0148 $\frac{\sqrt{2}+\sqrt{6}}{4}$ $0149 - \sqrt{3}$

02 32쪽 삼각비의 활용

0150 (1) 10, $5\sqrt{3}$ (2) 10, 5 **0151** (1) 4, 4 (2) 4, $4\sqrt{2}$ **0153** 5.74 **0154** 20 **0155** (1) $2\sqrt{3}$ (2) 2 (3) 4 (4) $2\sqrt{7}$

0157 2 **0158** (1) 12 (2) 60° (3) $8\sqrt{3}$ $0156\sqrt{10}$

 $0160 \ 4\sqrt{6}$

0161 (1) \angle BAH=60°, \angle CAH=45° (2) $\overline{BH} = \sqrt{3}h$, $\overline{CH} = h$ (3) $5(\sqrt{3}-1)$

0162 (1) \angle BAH=60°, \angle CAH=30° (2) $\overline{BH} = \sqrt{3}h$, $\overline{CH} = \frac{\sqrt{3}}{3}h$ (3) $\sqrt{3}$

 $0164 \ 15\sqrt{2} \ \text{cm}^2$

0165 (7) $\frac{1}{2}ab\sin(180^{\circ}-x)$ (4) $ab\sin(180^{\circ}-x)$ **0166** $21\sqrt{2}$ cm²

0167 $55\sqrt{3} \text{ cm}^2$ **0168** (7) $\frac{1}{2}$ (4) $\frac{1}{2}ab$ 0169 33√3 cm²

0170 16 cm²

0171 ③, ④ 0172 7.11 0173 ③ 0174 (1) 4.32 (2) 5.76

0175 $2(\sqrt{6}-\sqrt{2})$ **0176** $45\sqrt{3}$ cm³ 0177 (5) 0178 1

0179 $72\sqrt{3}\pi$ cm³ **0180** 4 cm³ **0181** (1) $6\sqrt{6}$ cm (2) $288\sqrt{6}$ cm³ 0182 30.2 m 0183 67.5 m 0184 (3) 0185 (3)

0186 ④ **0187** 50√3 m 0188 35초 0189 2√7 cm

0191 4 **0193** √91 0190 5√3 cm 0192 ⑤ 0194 (5)

0195 $2\sqrt{6}$ cm 0196 14 cm 0197 (4) $0198\ 5\sqrt{6}\ m$

0199 $40(\sqrt{2}+\sqrt{6})$ m **0200** $6(3-\sqrt{3})$ cm 0201 3 0202 10 m

0203 ② **0204** $16(3-\sqrt{3})$ cm² 0205 2 **0206** 3√3 0207 $3 - \sqrt{3}$

0208 7 cm **0209** ⑤ **0210** $9(3+\sqrt{3})$ cm² 0211 2 $0212 \ 6\sqrt{3}$

0215 $6\sqrt{2}$ cm² 0216 36 cm² 0213 3 0214 3

0217 2 0218 1 **0219** $4\sqrt{3}$ cm² 0220 1

0222 (2) **0223** $4\pi - 3\sqrt{3}$ $0224 \ 32\sqrt{2} \ cm^2$

 $0225 \ 12\sqrt{3} \ cm^2$ **0226** ② **0227** $18+12\sqrt{2}$ 0228 4

0229 3 0230 2 $023140+3\sqrt{51}$ **0232** $32\sqrt{2}$ cm²

0234 135° **0235** ③ **0233** $4\sqrt{3}$ cm $0237 \ 15\sqrt{3}$ 0236 4

0238 60 cm² 0239 2 0240 (5) 0241 45° 0242 4

C中河 0243 ④ 0244 (5) **0245** 50√2 m **0246** 6√13 0247 ② **0248** $4\sqrt{3}+4$ 0249 4 0250 7 cm

0252 $\frac{3}{5}$ **0253** $18\sqrt{3}$ cm² **0251** $(48+16\sqrt{3})$ cm² 0254 (4)

0255 (1) 20 cm (2) 4 cm **0256** $3\sqrt{3}(2-\sqrt{3})$ **0257** 36√3

0258 $\frac{99\sqrt{3}}{2}$ cm² **0259** $4\sqrt{3}$ cm² **0260** 99√3

03 52쪽 원과 직선 िह्न 0261 8 0262 22 0263 18 cm 0264 14 cm **0265** (1) $\sqrt{65}$ cm (2) $2\sqrt{65}$ cm **0266** 16 **0267** $10\sqrt{2}$ **0268** $4\sqrt{14}$ **0275** 2√5 **0276** 15 **0277** 4√2 **0278** (¬), (∟), (□) 0279 6 **0280** $5\sqrt{3}$ **0281** 60° **0282** 70° **0283** 16 **0284** 70285 (7) 8-x (4) $\overline{\text{CF}}$ (4) 3 **0286** (1) 13 (2) $\overline{\text{AF}} = 5 - r$, $\overline{\text{CF}} = 12 - r$ (3) 2 **0287** 10 **0288** 5 **0293** $2\sqrt{21}$ cm² **0294** ④ **0295** ③ **0296** $\frac{15}{2}$ cm **0297** ② **0298** $12\sqrt{2}$ cm **0299** ⑤ **0300** 65π **0301** 10 cm **0302** ① **0303** 25π cm² **0304** ② **0305** 8√3 cm **0306** ④ **0307** $25\sqrt{3}$ cm² **0308** $\frac{32}{3}\pi$ cm **0309** ④ **0310** 12 **0311** ③ **0312** $4\sqrt{5}$ cm **0313** $9\sqrt{3} + 4\pi$ **0314** ④ **0315** 80° **0316** ③ **0317** ③ **0318** 12π cm² **0319** $2\sqrt{2} + 2$ **0320** 9 cm **0321** ② **0322** 25π cm² **0323** 15 cm **0324** 8 cm **0325** 6√3 cm **0326** 12 cm **0327** ④ **0328** ③ **0329** 26° **0330** ③ **0331** ⑤ **0332** $4\sqrt{2}$ cm² **0333** ④ **0334** 40° **0335** $12\sqrt{3}$ cm **0336** ③ **0337** ③ **0338** $4\sqrt{5}$ cm **0339** $(72+16\sqrt{3}\pi)$ cm **0340** 5 cm **0341** ② **0342** 12 cm **0343** ③ **0344** ② **0345** 8√3 cm 0346 (5) **0347** 12 cm **0348** 90° **0349** ② **0350** $32\sqrt{15}$ cm² **0351** ② **0352** $11\sqrt{6}$ cm² **0353** ③ **0354** 16 **0355** ③ **0356** 7 cm **0357** ⓐ **0358** $3\sqrt{5}$ cm **0359** 4π cm² **0360** ⑤ **0361** ③ **0362** 16 cm **0363** 28 cm **0364** ④ **0365** $2\sqrt{10}$ cm **0366** $(68-16\pi)$ cm² **0367** ③ **0368** ④ **0369** 36 cm **0370** 3 cm 0371 ② 0372 2 cm **C**_{EPN} 0373 ③ 0374 (6+3√3) cm² 0375 ① 0376 2 **0377** $9\sqrt{3}$ cm² **0378** ② **0379** $\frac{16\sqrt{5}}{3}$ cm **0380** ⑤ 0381 $\frac{3}{2}$ cm 0382 ② 0383 $\frac{8\sqrt{5}}{5}$ cm 0384 7 cm 0385 ⑤ **0387** ③ **0388** $12\pi - 9\sqrt{3}$ **0389** $\frac{15}{2}$ cm 0386 8 0390 50° 0391 $\left(16\sqrt{3} - \frac{16}{3}\pi\right)$ cm² 0392 6 cm 0393 $\sqrt{6} + \sqrt{3} - 1$ 03943 **0395** 4 **0396** $(16-8\sqrt{3})$ cm

04 74쪽 원주각

단계	0414 ①	0415 48°	0416 112°	0417 ③	0418 ②
0419 28°	0420 24°	0421 ④	0422 64°	0423 ④	0424 ③
0425 120°	0426 (2+2)	√3) cm	0427 72°	0428 ③	0429 117°
0430 ③	0431 70°	0432 ②	0433 55°	0434 4	0435 180°
0436 ①	0437 92°	0438 ③	0439 4	0440 75°	0441 ④
0442 √61	0443 ③	0444 3√2 cm	n	0445 $\frac{\sqrt{5}}{3}$	0446 $\frac{43}{20}$
0447 ④	0448 $\frac{2\sqrt{3}}{7}$	0449 ②	0450 12+4,	3	0451 3
0452 ①	0453 ⑤	0454 30°	0455 ③	0456 ④	0457 36°
0458 ③	0459 55°	0460 ①	0461 60°	0462 ③	0463 4
0464 40°	0465 7π	0466 24 cm	0467 ③	0468 ④	0469 20
0470 ⑤	0471 ②	0472 100°	0473 ②		
_					
C _{단계}	0474 2π	0475 ④	0476 59°	0477 ⑤	0478 ②
0479 (25√3 ·	$+\frac{250}{3}\pi$) m ²	0480 ③	0481 80°	0482 ④	0483 100°
0484 9	0485 ⑤	0486 14√3	0487 $\frac{\pi}{2}$ - 1	0488 $\frac{\sqrt{3}}{2}$	0489 2√3 cm
0490 18√3 c	em²	0491 5π cm			

05 90쪽 원주각의 활용

0594 84°

	0-132 00	0133 20	01311	0133 20	
0496 (%) 180	(나) 180 (다)	∠DCE	$0497 \angle x = 9$	97°, ∠y=73°	
$0498 \angle x = 8$	80°, ∠y=100)°	0499 93°	0500 67°	0501 65°
0502 70°	0503 55°	0504 68°	0505 72°	0506 105°	0507 48°
0508 68°					
B _E ग	0509 ②, ⑤	0510 35°	0511 45°	0512 ③	0513 ⑤
0514 14 cm	0515 50°	0516 ③	0517 ③	0518 ②	0519 142°
0520 4	0521 ①	0522 115°	0523 ③	0524 4	0525 70°
0526 ③	0527 96°	0528 10°	0529 16π cm	n^2	0530 95°
0531 ⑤	0532 4	0533 216°	0534 360°	0535 59°	0536 20°
0537 ④	0538 ④	0539 ②	0540 ②, ④	0541 186°	0542 16°
0543 ②, ④	0544 ②	0545 100°			
0546 (₹) ∠A	APB (4) ∠CI	RD (대) 360	(라) 180	0547 ③	0548 55°
0549 4	0550 ③	0551 84°	0552 4	0553 20°	0554 119°
0555 ⑤	0556 88°	0557 4	0558 44°	0559 ②	0560 ②
0561 44°	0562 4	0563 ②	0564 60°	0565 8 cm	0566 ①
0567 ⑤	0568 2√6 cm	n	0569 ⑤	0570 ②	0571 63°
0572 ⑤	0573 ②	0574 ①	0575 65°	0576 70°	
C단계	0577 ③	0578 55°	0579 ③	0580 95°	0581 82°
0582 65°	0583 4	0584 60°	0585 ①	0586 $3\sqrt{5}\pi$	0587 4
0588 ③	0589 94°	0590 66°	0591 76°	0592 30°	0593 105°

0492 38° **0493** 20° **0494** 77° **0495** 25°

06 108쪽 대푯값과 산포도

단계

0595 평균: $\frac{14}{5}$, 중앙값: 3, 최빈값: 3

 $\frac{17}{3}$, 중앙값: 5, 최빈값: 4 $\frac{17}{3}$, 중앙값: 8, 최빈값: 8, 9

0598 B형 0599 중앙값: 27초, 최빈값: 34초 0600 3

0601 중앙값: 4개, 최빈값: 3개, 5개 0602 10장

0603 2장, −2장, 5장, −1장, −4장 **0604** −5 **0605** 27시간 **0606** 41개

0607 $\frac{576}{7}$ **0608** $\frac{24\sqrt{7}}{7}$ 가

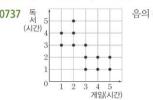
BENZI 0609 18분 0610 2시간 0611 B 바구니 0612 3 0613 ② 0614 18 06158 0616 1 0617 13.5 0618 71.5 dB 0619 ③ 0620 53 kg 0621 8편 0622 19 0623 4 0624 ③ **0625** b < a < c0626 (5) 0627 최빈값, 275 mm 0628 평균: 4.1권, 중앙값: 1.5권, 중앙값 0629 (¬), (E) 0630 (5) 0632 25 0631 ① 0633 90 0634 23, 24, 25 0637 - 90635 15세 0636 ⑤ 0638 2 0639 (5) 0640 78점 0641 47회 0642 ② 0643 3 0644 2개 0645 3 0646 1점 0647 (5) 0648 5 0649 √30점 0650② 0653 평균: 8, 분산: 4.6 0654 -6 0651 2 0652 102 **0657** 평균: 15, 분산: 9 **0658** $\frac{2\sqrt{15}}{5}$ 회 0656 18 0659 4 0660 2 0661 평균: 16, 분산: 9 0662 √6 0663 (5) 0664 2, 4 0665 (3) 0666 1반 0667 1 0668 선환 0669 ② 0670 (2)

C단계 0674 (4) 0675 (5) 0676 35 0677 2 0678 3 0679 412 0680 1 0681 60 0682 3 0683 ③ 0684 (5) $0685 \frac{2}{3}$ **0687** 31 명 **0688** 5 $0689 \frac{11}{3}$ 0686 5 0690 90점, 9

0673 A 반: 6/5, B 반: 8/5, A 반

B단계 0708 ⑤ 0709 16 0710 2 차 10 (점) 8 6 4 2 0 2 4 6 8 100

0711 40 % 0712 7점 0713 28 % 0714 ⑤ 0715 ④ 0716 ③, ⑤ 0717 8명 0718 4명 0719 (1) 20명 (2) 40 % 0720 ② 0721 ②, ④ 0722 ④ 0723 ② 0724 40 % 0725 30 % 0726 180점 0727 ⑤ 0728 6회 0729 20 % 0730 ④ 0731 ③, ④ 0732 34 0733 ④ 0734 (¬), (ㄹ) 0735 ②, ④ 0736 ④



0738 ③ 0739 ③ 0740 ③ 0741 ⑤ 0742 ⑤ 0743 ② 0744 ③

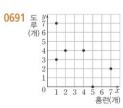
단계 0745 ③ 0746 70 % 0747 3.5회 0748 25 0749 ②
 0750 4명 0751 (1) 음의 상관관계 (2) 남학생: 110분, 여학생: 85분
 0752 ④ 0753 ③ 0754 8.25점 0755 40 % 0756 65점 0757 34
 0758 (1) 상관관계가 없다. (2) 음의 상관관계

07 124쪽 상관관계



0671 D 반

0672 (1)



0692 영어: 80점, 국어: 100점 0693 4명 0694 6명 0695 6명 0696 4명 0697 3명 0698 (니, (리) 0699 (기, (미) 0700 (비) 0701 양 0702 × 0703 음 0704 음 0705 양 0706 × 0707 음

