

- 88쪽**
- 1 (1) 3% (또는 27), 36π (2) $\frac{500}{3}\pi\text{cm}^3$ (3) $\frac{256}{3}\pi\text{cm}^3$
- 2 (1) 2% (또는 8), $\frac{16}{3}\pi$ (2) $18\pi\text{cm}^3$ (3) $512\pi\text{cm}^3$

89~91쪽 대단원 개념 마무리

- 1 (1) ㄱ, ㄴ, ㄷ, ㄹ (2) ㄱ, ㄷ (3) ㄱ, ㄴ, ㄷ (4) ㄹ
- 2 (1) ○ (2) ○ (3) × (4) ○
- 3 (1) 정육면체 (2) 점 F (3) 면 MFEN (4) (1) ㄷ (2) ㄱ (3) ㄴ
- 5
- 6 (1) $a=5, b=3, c=6\pi$ (2) $a=4, b=8, c=14\pi$
- 7 (1) ① 224cm^2 ② 196cm^2 (2) ① $192\pi\text{cm}^2$ ② $360\pi\text{cm}^2$
- 8 (1) $10\pi\text{cm}^3$ (2) $128\pi\text{cm}^3$
- 9 (1) ① 360cm^2 ② 400cm^2 (2) ① $216\pi\text{cm}^2$ ② $324\pi\text{cm}^2$
- 10 (1) ① 360cm^2 ② 336cm^2 (2) ① $90\pi\text{cm}^2$ ② $84\pi\text{cm}^2$
- 11 (1) ① $324\pi\text{cm}^2$ ② $972\pi\text{cm}^2$
- (2) ① $48\pi\text{cm}^2$ ② $\frac{128}{3}\pi\text{cm}^3$
- 12 (1) ① $18\pi\text{cm}^3$ ② $45\pi\text{cm}^3$ ③ $63\pi\text{cm}^3$
- (2) ① $\frac{128}{3}\pi\text{cm}^3$ ② $\frac{112}{3}\pi\text{cm}^3$ ③ $80\pi\text{cm}^3$

V. 통계

- 94쪽** 1 (1) 2 (2) 2, 4, 3 (3) 15 (4) 6, 5 (5) 6 (6) 11
- 2 (1) 3 (2) 11 (3) 7
- 95쪽** 1 (1) 8 (2) 44, 55, 66 (3) 100 (4) 소
- 2 A형 3 16GB, 32GB 4 튀김

96쪽 집중 연습

- 1 9, 12, 15, 17, 17, 20, 21, 24 (1) 15점 (2) 16점 (3) 17점
- 2 (1) 24세 (2) 26세 (3) 26세, 31세
- 3 (1) 25시간 (2) 14시간 (3) 중앙값 4 최빈값, 5만 원

- 97쪽** 1

출기	임
1	3 4 4 5 9
2	1 2 3 3 6 7 9
3	0 2 5 6 7
4	1 2 4

(1) 실, 일 (2) 4, 4, 5, 9 (3) 20, 20
(4) 36, 37, 41, 42, 44, 6
- 2 (1) 4 (2) 21명 (3) 28회 (4) 7명
- 98~99쪽** 1

사용 시간(분)	학생 수(명)
0 ⁰⁰ ~ 20 ⁰⁰	///
20 ~ 40	///
40 ~ 60	///
60 ~ 80	/// /
80 ~ 100	///
합계	24

(1) 5 (2) 20 (3) 6, 60, 80 (4) 9

- 2 (1) 20송이 (2) 20송이 이상 40송이 미만
(3) 80송이 이상 100송이 미만 (4) 19일
- 3 10 (4) (1) 10cm (2) 13 (3) 18명
- 5 (1) 9명 (2) 9, 18 (3) 14명 (4) 28%
- 100~101쪽** 1
(1) 10 L (2) 50 L 이상 60 L 미만 (3) 16명 (4) 30명
(5) 12명 (6) 40%
- 4 (1) × (2) ○ (3) × (4) ○ (5) × (6) ○
- 102~103쪽** 1
(1) 2회 (2) 6 (3) 40명 (4) 12명 (5) 14명 (6) 35%
- 4 (1) × (2) × (3) ○ (4) ○ (5) × (6) ○
- 104~105쪽** 1 0.25, 0.4, 0.2, 0.1
- 2 0.2, 0.25, 0.35, 0.15, 0.05, 1
- 3 (1) 0.3, 30 (2) 35% (3) 50%
- 4 (1) 0.3, 9 (2) 32 (3) 0.08, 125 (4) 300
- 5 24, 32, 20, 14, 100
- 6 (1) 0.1, 50 (2) 50, 10 (3) 50, 0.16 (4) 50, 0.32 (5) 1
(6) 26%

- 106~107쪽** 1
(1) 0.16, 0.32, 0.24, 0.2, 1
- 3 (1) 0.04 (2) 0.04, 2 (3) 0.3, 15 (4) 0.48, 48 (5) 0.2, 10
- 4 (1) 50점 이상 60점 미만 (2) 8명 (3) 26명 (4) 32% (5) 42명
- 108~109쪽** 1 (1) A 중학교: 0.24, 0.32, 0.18, 0.1, 1
B 중학교: 0.12, 0.24, 0.3, 0.28, 1
- (2) 0.24, 0.12, A 중학교 (3) 0.28, 0.58, B 중학교 (4) B 중학교
- 2 (1) A 중학교 (2) B 중학교 (3) 70명 (4) 35명 (5) B 중학교
- 3 (1) × (2) × (3) × (4) ○ (5) ○

- 110~112쪽 대단원 개념 마무리**
- 1 (1) 13, 11 (2) 18, 19
- 2 (1) 64mm (2) 36mm (3) 중앙값
- 3 (1)

출기	임
0	5 8
1	2 5 6 6 8
2	0 1 4 5
3	0 2 3 3

(1) 13, 11 (2) 18, 19
- 4 (1) ○ (2) × (3) × (4) ○ (5) × (6) × (7) × (8) × (9) × (10) × (11) × (12) × (13) × (14) × (15) × (16) × (17) × (18) × (19) × (20) × (21) × (22) × (23) × (24) × (25) × (26) × (27) × (28) × (29) × (30) × (31) × (32) × (33) × (34) × (35) × (36) × (37) × (38) × (39) × (40) × (41) × (42) × (43) × (44) × (45) × (46) × (47) × (48) × (49) × (50) × (51) × (52) × (53) × (54) × (55) × (56) × (57) × (58) × (59) × (60) × (61) × (62) × (63) × (64) × (65) × (66) × (67) × (68) × (69) × (70) × (71) × (72) × (73) × (74) × (75) × (76) × (77) × (78) × (79) × (80) × (81) × (82) × (83) × (84) × (85) × (86) × (87) × (88) × (89) × (90) × (91) × (92) × (93) × (94) × (95) × (96) × (97) × (98) × (99) × (100) × (101) × (102) × (103) × (104) × (105) × (106) × (107) × (108) × (109) × (110) × (111) × (112) × (113) × (114) × (115) × (116) × (117) × (118) × (119) × (120) × (121) × (122) × (123) × (124) × (125) × (126) × (127) × (128) × (129) × (130) × (131) × (132) × (133) × (134) × (135) × (136) × (137) × (138) × (139) × (140) × (141) × (142) × (143) × (144) × (145) × (146) × (147) × (148) × (149) × (150) × (151) × (152) × (153) × (154) × (155) × (156) × (157) × (158) × (159) × (160) × (161) × (162) × (163) × (164) × (165) × (166) × (167) × (168) × (169) × (170) × (171) × (172) × (173) × (174) × (175) × (176) × (177) × (178) × (179) × (180) × (181) × (182) × (183) × (184) × (185) × (186) × (187) × (188) × (189) × (190) × (191) × (192) × (193) × (194) × (195) × (196) × (197) × (198) × (199) × (200) × (201) × (202) × (203) × (204) × (205) × (206) × (207) × (208) × (209) × (210) × (211) × (212) × (213) × (214) × (215) × (216) × (217) × (218) × (219) × (220) × (221) × (222) × (223) × (224) × (225) × (226) × (227) × (228) × (229) × (230) × (231) × (232) × (233) × (234) × (235) × (236) × (237) × (238) × (239) × (240) × (241) × (242) × (243) × (244) × (245) × (246) × (247) × (248) × (249) × (250) × (251) × (252) × (253) × (254) × (255) × (256) × (257) × (258) × (259) × (260) × (261) × (262) × (263) × (264) × (265) × (266) × (267) × (268) × (269) × (270) × (271) × (272) × (273) × (274) × (275) × (276) × (277) × (278) × (279) × (280) × (281) × (282) × (283) × (284) × (285) × (286) × (287) × (288) × (289) × (290) × (291) × (292) × (293) × (294) × (295) × (296) × (297) × (298) × (299) × (300) × (301) × (302) × (303) × (304) × (305) × (306) × (307) × (308) × (309) × (310) × (311) × (312) × (313) × (314) × (315) × (316) × (317) × (318) × (319) × (320) × (321) × (322) × (323) × (324) × (325) × (326) × (327) × (328) × (329) × (330) × (331) × (332) × (333) × (334) × (335) × (336) × (337) × (338) × (339) × (340) × (341) × (342) × (343) × (344) × (345) × (346) × (347) × (348) × (349) × (350) × (351) × (352) × (353) × (354) × (355) × (356) × (357) × (358) × (359) × (360) × (361) × (362) × (363) × (364) × (365) × (366) × (367) × (368) × (369) × (370) × (371) × (372) × (373) × (374) × (375) × (376) × (377) × (378) × (379) × (380) × (381) × (382) × (383) × (384) × (385) × (386) × (387) × (388) × (389) × (390) × (391) × (392) × (393) × (394) × (395) × (396) × (397) × (398) × (399) × (400) × (401) × (402) × (403) × (404) × (405) × (406) × (407) × (408) × (409) × (410) × (411) × (412) × (413) × (414) × (415) × (416) × (417) × (418) × (419) × (420) × (421) × (422) × (423) × (424) × (425) × (426) × (427) × (428) × (429) × (430) × (431) × (432) × (433) × (434) × (435) × (436) × (437) × (438) × (439) × (440) × (441) × (442) × (443) × (444) × (445) × (446) × (447) × (448) × (449) × (450) × (451) × (452) × (453) × (454) × (455) × (456) × (457) × (458) × (459) × (460) × (461) × (462) × (463) × (464) × (465) × (466) × (467) × (468) × (469) × (470) × (471) × (472) × (473) × (474) × (475) × (476) × (477) × (478) × (479) × (480) × (481) × (482) × (483) × (484) × (485) × (486) × (487) × (488) × (489) × (490) × (491) × (492) × (493) × (494) × (495) × (496) × (497) × (498) × (499) × (500) × (501) × (502) × (503) × (504) × (505) × (506) × (507) × (508) × (509) × (510) × (511) × (512) × (513) × (514) × (515) × (516) × (517) × (518) × (519) × (520) × (521) × (522) × (523) × (524) × (525) × (526) × (527) × (528) × (529) × (530) × (531) × (532) × (533) × (534) × (535) × (536) × (537) × (538) × (539) × (540) × (541) × (542) × (543) × (544) × (545) × (546) × (547) × (548) × (549) × (550) × (551) × (552) × (553) × (554) × (555) × (556) × (557) × (558) × (559) × (560) × (561) × (562) × (563) × (564) × (565) × (566) × (567) × (568) × (569) × (570) × (571) × (572) × (573) × (574) × (575) × (576) × (577) × (578) × (579) × (580) × (581) × (582) × (583) × (584) × (585) × (586) × (587) × (588) × (589) × (590) × (591) × (592) × (593) × (594) × (595) × (596) × (597) × (598) × (599) × (600) × (601) × (602) × (603) × (604) × (605) × (606) × (607) × (608) × (609) × (610) × (611) × (612) × (613) × (614) × (615) × (616) × (617) × (618) × (619) × (620) × (621) × (622) × (623) × (624) × (625) × (626) × (627) × (628) × (629) × (630) × (631) × (632) × (633) × (634) × (635) × (636) × (637) × (638) × (639) × (640) × (641) × (642) × (643) × (644) × (645) × (646) × (647) × (648) × (649) × (650) × (651) × (652) × (653) × (654) × (655) × (656) × (657) × (658) × (659) × (660) × (661) × (662) × (663) × (664) × (665) × (666) × (667) × (668) × (669) × (670) × (671) × (672) × (673) × (674) × (675) × (676) × (677) × (678) × (679) × (680) × (681) × (682) × (683) × (684) × (685) × (686) × (687) × (688) × (689) × (690) × (691) × (692) × (693) × (694) × (695) × (696) × (697) × (698) × (699) × (700) × (701) × (702) × (703) × (704) × (705) × (706) × (707) × (708) × (709) × (710) × (711) × (712) × (713) × (714) × (715) × (716) × (717) × (718) × (719) × (720) × (721) × (722) × (723) × (724) × (725) × (726) × (727) × (728) × (729) × (730) × (731) × (732) × (733) × (734) × (735) × (736) × (737) × (738) × (739) × (740) × (741) × (742) × (743) × (744) × (745) × (746) × (747) × (748) × (749) × (750) × (751) × (752) × (753) × (754) × (755) × (756) × (757) × (758) × (759) × (760) × (761) × (762) × (763) × (764) × (765) × (766) × (767) × (768) × (769) × (770) × (771) × (772) × (773) × (774) × (775) × (776) × (777) × (778) × (779) × (780) × (781) × (782) × (783) × (784) × (785) × (786) × (787) × (788) × (789) × (790) × (791) × (792) × (793) × (794) × (795) × (796) × (797) × (798) × (799) × (800) × (801) × (802) × (803) × (804) × (805) × (806) × (807) × (808) × (809) × (810) × (811) × (812) × (813) × (814) × (815) × (816) × (817) × (818) × (819) × (820) × (821) × (822) × (823) × (824) × (825) × (826) × (827) × (828) × (829) × (830) × (831) × (832) × (833) × (834) × (835) × (836) × (837) × (838) × (839) × (840) × (841) × (842) × (843) × (844) × (845) × (846) × (847) × (848) × (849) × (850) × (851) × (852) × (853) × (854) × (855) × (856) × (857) × (858) × (859) × (860) × (861) × (862) × (863) × (864) × (865) × (866) × (867) × (868) × (869) × (870) × (871) × (872) × (873) × (874) × (875) × (876) × (877) × (878) × (879) × (880) × (881) × (882) × (883) × (884) × (885) × (886) × (887) × (888) × (889) × (890) × (891) × (892) × (893) × (894) × (895) × (896) × (897) × (898) × (899) × (900) × (901) × (902) × (903) × (904) × (905) × (906) × (907) × (908) × (909) × (910) × (911) × (912) × (913) × (914) × (915) × (916) × (917) × (918) × (919) × (920) × (921) × (922) × (923) × (924) × (925) × (926) × (927) × (928) × (929) × (930) × (931) × (932) × (933) × (934) × (935) × (936) × (937) × (938) × (939) × (940) × (941) × (942) × (943) × (944) × (945) × (946) × (947) × (948) × (949) × (950) × (951) × (952) × (953) × (954) × (955) × (956) × (957) × (958) × (959) × (960) × (961) × (962) × (963) × (964) × (965) × (966) × (967) × (968) × (969) × (970) × (971) × (972) × (973) × (974) × (975) × (976) × (977) × (978) × (979) × (980) × (981) × (982) × (983) × (984) × (985) × (986) × (987) × (988) × (989) × (990) × (991) × (992) × (993) × (994) × (995) × (996) × (997) × (998) × (999) × (1000) × (1001) × (1002) × (1003) × (1004) × (1005) × (1006) × (1007) × (1008) × (1009) × (1010) × (1011) × (1012) × (1013) × (1014) × (1015) × (1016) × (1017) × (1018) × (1019) × (1020) × (1021) × (1022) × (1023) × (1024) × (1025) × (1026) × (1027) × (1028) × (1029) × (1030) × (1031) × (1032) × (1033) × (1034) × (1035) × (1036) × (1037) × (1038) × (1039) × (1040) × (1041) × (1042) × (1043) × (1044) × (1045) × (1046) × (1047) × (1048) × (1049) × (1050) × (1051) × (1052) × (1053) × (1054) × (1055) × (1056) × (1057) × (1058) × (1059) × (1060) × (1061) × (1062) × (1063) × (1064) × (1065) × (1066) × (1067) × (1068) × (1069) × (1070) × (1071) × (1072) × (1073) × (1074) × (1075) × (1076) × (1077) × (1078) × (1079) × (1080) × (1081) × (1082) × (1083) × (1084) × (1085) × (1086) × (1087) × (1088) × (1089) × (1090) × (1091) × (1092) × (1093) × (1094) × (1095) × (1096) × (1097) × (1098) × (1099) × (1100) × (1101) × (1102) × (1103) × (1104) × (1105) × (1106) × (1107) × (1108) × (1109) × (1110) × (1111) × (1112) × (1113) × (1114) × (1115) × (1116) × (1117) × (1118) × (1119) × (1120) × (1121) × (1122) × (1123) × (1124) × (1125) × (1126) × (1127) × (1128) × (1129) × (1130) × (1131) × (1132) × (1133) × (1134) × (1135) × (1136) × (1137) × (1138) × (1139) × (1140) × (1141) × (1142) × (1143) × (1144) × (1145) × (1146) × (1147) × (1148) × (1149) × (1150) × (1151) × (1152) × (1153) × (1154) × (1155) × (1156) × (1157) × (1158) × (1159) × (1160) × (1161) × (1162) × (1163) × (1164) × (1165) × (1166) × (1167) × (1168) × (1169) × (1170) × (1171) × (1172) × (1173) × (1174) × (1175) × (1176) × (1177) × (1178) × (1179) × (1180) × (1181) × (1182) × (1183) × (1184) × (1185) × (1186) × (1187) × (1188) × (1189) × (1190) × (1191) × (1192) × (1193) × (1194) × (1195) × (1196) × (1197) × (1198) × (1199) × (1200) × (1201) × (1202) × (1203) × (1204) × (1205) × (1206) × (1207) × (1208) × (1209) × (1210) × (1211) × (1212) × (1213) × (1214) × (1215) × (1216) × (1217) × (1218) × (1219) × (1220) × (1221) × (1222) × (1223) × (1224) × (1225) × (1226) × (1227) × (1228) × (1229) × (1230) × (1231) × (1232) × (1233) × (1234) × (1235) × (1236) × (1237) × (1238) × (1239) × (1240) × (1241) × (1242) × (1243) × (1244) × (1245) × (1246) × (1247) × (1248) × (1249) × (1250) × (1251) × (1252) × (1253) × (1254) × (1255) × (1256) × (1257) × (1258) × (1259) × (1260) × (1261) × (1262) × (1263) × (1264) × (1265) × (1266) × (1267) × (1268) × (1269) × (1270) × (1271) × (1272) × (1273) × (1274) × (1275) × (1276) × (1277) × (1278) × (1279) × (1280) × (1281) × (1282) × (1283) × (1284) × (1285) × (1286) × (1287) × (1288) × (1289) × (1290) × (1291) × (1292) × (1293) × (1294) × (1295) × (1296) × (1297) × (1298) × (1299) × (1300) × (1301) × (1302) × (1303) × (1304) × (1305) × (1306) × (1307) × (1308) × (1309) × (1310) × (1311) × (1312) × (1313) × (1314) × (1315) × (1316) × (1317) × (1318) × (1319) × (1320) × (1321) × (1322) × (1323) × (1324) × (1325) × (1326) × (1327) × (1328) × (1329) × (1330) × (1331) × (1332) × (1333) × (1334) × (1335) × (1336) × (1337) × (1338) × (1339) × (1340) × (1341) × (1342) × (1343) × (1344) × (1345) × (1346) × (1347) × (1348) × (1349) × (1350) × (1351) × (1352) × (1353) × (1354) × (1355) × (1356) × (1357) × (1358) × (1359) × (1360) × (1361) × (1362) × (1363) × (1364) × (1365) × (1366) × (1367) × (1368) × (1369) × (1370) × (1371) × (1372) × (1373) × (1374) × (1375) × (1376) × (1377) × (1378) × (1379) × (1380) × (1381) × (1382) × (1383) × (1384) × (1385) × (1386) × (1387) × (1388) × (1389) × (1390) × (1391) × (1392) × (1393) × (1394) × (1395) × (1396) × (1397) × (1398) × (1399) × (1400) × (1401) × (1402) × (1403) × (1404) × (1405) × (1406) × (1407) × (1408) × (1409) × (1410) × (1411) × (1412) × (1413) × (1414) × (1415) × (1416) × (1417) × (1418) × (1419) × (1420) × (1421) × (1422) × (1423) × (1424) × (1425) × (1426) × (1427) × (1428) × (1429) × (1430) × (1431) × (1432) × (1433) × (1434) × (1435) × (1436) × (1437) × (1438) × (1439) × (1440) × (1441) × (1442) × (1443) × (1444) × (1445) × (1446) × (1447) × (1448) × (1449) × (1450) × (1451) × (1452) × (1453) × (1454) × (1455) × (1456) × (1457) × (1458) × (1459) × (1460) ×