

CP1 GEOMETRY
CHAPTER 11
UNDERSTANDING AREA
HOMEWORK ASSIGNMENTS

Remember to show your work for all problems. Showing only the answer is NOT acceptable if work is required to do the problem. If you can't finish a problem, at least show me that you attempted it.

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CP1 Geometry Chapter 11 Answer Key

Assignment #1, page 513

- 1a. 207 b. 78 c. 80
2. 75 sq cm
3a. 120 b. 84
4a. 8 mm b. 10 mm
5a. 144 b. 50 c. 7 d. 36 e. 81
8a. 5; 10; 25; 12.5 b. 50; 40; 58; 41
c. the square d. the rectangle must be a square
9. 256 sq cm
11. 9 m by 15 m
13. (18,8)

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15. 85
16. 12; 8
17. 33
21a. ~ 72.7 b/ ~ 120.2 c. 120.0
22a. $39\sqrt{3}$ b. 33 b. $32\sqrt{3} + 128$
23. 12
24a. 336 b. $13\frac{11}{25}$
26. A=120 P=52

Assignment #2, page 525

- 1a. 104 b. 13
2a. 75 b. 72 c. 78 d. 312
4. 9
5. 11
6. 22 ft
7a. 396 b. 78
8a. $30\sqrt{3}$ b. 115
9. 24
10a. 10 b. 5 c. 5 d. 70
11. 89
13. 72

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1. 60
2a. 56 b. 85 c. 160
3. 5
4. 168
5a. 336 b. 500
6. 85
7. 78
8. $50\sqrt{3}$
9a. 8; 28; 18 b. 30

Assignment #3, page 533

1. 36
2a. $9\sqrt{3}$ b. $\frac{49\sqrt{3}}{4}$ c. $16\sqrt{3}$ d. $3\sqrt{3}$
3a. $108\sqrt{3}$ b. $48\sqrt{3}$ c. $27\sqrt{3}$ d. $36\sqrt{3}$
4a. ~ 93.5 b. ~ 166.3 c. ~ 124.7 d. ~ 221.7
5a. 12 b. $6\sqrt{3}$ c. $216\sqrt{3}$
6a. 100 b. 576 c. 49 d. 50 e. 72 f. 9
12c. $\frac{147\sqrt{3}}{2}$
14. 32
17a. $36 - 9\sqrt{3}$ b. $27\sqrt{3}$ c. $36\sqrt{3}$

Assignment #4, page 539

- 6a. ~ 57 sq m b. 72 sq m c. ~ 15 sq m
9a. 24π b. 12π c. 8π
10. 144
11a. $16\pi - 32$ b. $\frac{32\pi}{3} - 16\sqrt{3}$
c. $12\pi - 9\sqrt{3}$
12a. 16π b. $(R^2 - r^2)\pi$
13a. $18\pi; 50\pi; 24.5\pi$
13b. it's half the area of the larger circle
14a. $100 - 25\pi$ b. $25\sqrt{3} - \frac{25\pi}{3}$ c.
 $100 - 25\pi$
d. $25\sqrt{3} - \frac{25\pi}{2}$ e. $50 - 100\pi$ f.
 $150\sqrt{3} - 75\pi$
15. 12π
16a. ~ 1178 sq cm b. ~ 785 sq cm c. $1/25$

Assignment #5, page 547

- 3a. 1:1 b. 1:2 c. 2:1
4. 16:81
5. 3:4
6. No, the new garden is 4x as big
7. 1:16
8. 49:16
9a. 64:225 b. 1:2 c. 1:1 d. 4:9
10a. 4:81 b. 2:9 c. 1:3 d. 4:9
11. 5:4
12a. 2:3 b. 2:3
13. 250
14. 5:8
15. 16:81
16. 9:16
17. 4:9

Assignment #6, Chapter Review page 554

- 1a. 84 b. 42 c. 75 d. 52 e. 20 f. 8
2a. 63 b. 33
3a. 70 b. 24 c. $16\sqrt{3}$
4. \$1200.00
5. $48\sqrt{3}$
6. 288
7. 18
8. 67.5 cents
10. 64π
12. ~77.0 sq mm
13a. 9π b. 16π c. $100 - 25\pi$
14a. 24π b. 16π c. 4π

Assignment #7, Chapter review, page 555

17. 360
18. $21\sqrt{2}$
19. 120
21. $A=77\sqrt{3}$ $P=50$
23a. 338 b. 6
24. $648\sqrt{3}$
25a. 168/5 b. $27\sqrt{3} - 9\pi$ c. $6 - \pi$
26a. 2:1 b. 7:5 c. 4:1
27a. $9\pi - 18$ b. $6\pi - 9\sqrt{3}$
28a. 16:81 b. 4:9 c. 1:1
29. Circle