Name _____ Date _____

Additional Exercises 2.4
Form I
Formulas and Percents

Solve the formula for the specified variable.

1. $I = Prt$ for t 1. _____

2. $V = \frac{1}{3}Bh$ for h 2. _____

3. $P = s_1 + s_2 + s_3$ for s_3 3. _____

4. $y = mx + b$ for b 4. _____

Express the decimal as a percent.

5. 0.88 5. _____

6. 0.1 6. _____

7. 2.3 7. _____

8. 0.009 8. _____

Express the percent as a decimal.

9. 72% 9. _____

10. 3.2% 10. _____

11. 100% 11. _____

12. 0.04% 12. _____

Name _____ Date _____

Solve the problem.

13. What number is 54% of 38? 13. _____

14. What number is 11% of 67? 14. _____

15. 45% of what number is 112.5? 15. _____

16. What percent of 8 is 2? 16. _____

17. Jeans are on sale at the local department store for 20% off. If the jeans originally cost $57, find the sale price. 17. _____

18. Due to a lack of funding, the number of students enrolled at City College went from 10,000 to 7700 this year. Find the percent of decrease in enrollment. (Round answer to the nearest tenth if necessary.) 18. _____

19. Attendance this year at the homecoming football game is 165% of what it was last year. If last year's homecoming football game attendance was 21,000, what is this year's attendance? 19. _____

20. Of the students at a university, 8% attended a lecture. If 7000 students are enrolled at the university, about how many students attended the lecture? 20. _____

Name _____ Date _____

Additional Exercises 2.4
Form II
Formulas and Percents

Solve the formula for the specified variable.

1. $Ax + By = C$ for A 1. _____

2. $V = \frac{1}{3}Bh$ for B 2. _____

3. $F = \frac{9}{5}C + 32$ for C 3. _____

4. $P = 2l + 2w$ for w 4. _____

Express the decimal as a percent.

5. 0.21 5. _____

6. 0.7 6. _____

7. 0.0091 7. _____

8. 4 8. _____

Express the percent as a decimal.

9. 81% 9. _____

10. 4.6% 10. _____

11. 600% 11. _____

12. 0.09% 12. _____

Name _____ Date _____

Solve the problem.

13. What number is 70% of 136? 13. _____

14. What number is 40% of 180? 14. _____

15. 36% of what number is 21.6? 15. _____

16. What percent of 2.5 is 3? 16. _____

17. Jeans are on sale at the local department store for 15% off. If the jeans originally cost $75, find the sale price. 17. _____

18. Due to a lack of funding, the number of students enrolled at City College went from 9,000 to 2000 this year. Find the percent of decrease in enrollment. (Round answer to the nearest tenth if necessary.) 18. _____

19. Attendance this year at the homecoming football game is 115% of what it was last year. If last year's homecoming football game attendance was 21,000, what is this year's attendance? 19. _____

20. Of the students at a university, 17.5% attended a lecture. If 7000 students are enrolled at the university, about how many students attended the lecture? 20. _____

Name _____ Date _____

Additional Exercises 2.4
Form III
Formulas and Percents

Solve the formula for the specified variable.

1. $S = 2\pi rh + 2\pi r^2$ for h 1. _____

2. $Ax + By = C$ for B 2. _____

3. $S = \frac{1}{2}(a + b + c)$ for a 3. _____

4. $PV = nRT$ for R 4. _____

Express the decimal as a percent.

5. 0.152 5. _____

6. 0.5 6. _____

7. 9.8 7. _____

8. 2.05 8. _____

Express the percent as a decimal.

9. 92.5% 9. _____

10. 3.17% 10. _____

11. 150% 11. _____

12. 0.011% 12. _____

Name _____ Date _____

Solve the problem.

13. What number is 85% of 112? 13. _____

14. What number is 32% of 225? 14. _____

15. 21% of what number is 17.85? 15. _____

16. What percent of 7.5 is 9? 16. _____

17. Jeans are on sale at the local department store for 25% off. If the jeans originally cost $99.50, find the sale price. 17. _____

18. Due to a lack of funding, the number of students enrolled at City College went from 8500 to 6250 this year. Find the percent of decrease in enrollment. (Round answer to the nearest tenth if necessary.) 18. _____

19. Attendance this year at the homecoming football game is 127% of what it was last year. If last year's homecoming football game attendance was 24,500, what is this year's attendance? 19. _____

20. Of the students at a university, 13% attended a lecture. If 8000 students are enrolled at the university, about how many students attended the lecture? 20. _____