

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. _____

5. $Ax + By = C$ for y 5. _____

6. $S = \frac{1}{2}(a + b + c)$ for b 6. _____

Solve the problem.

7. What number is 25% of 60? 7. _____

8. 5% of what number is 10? 8. _____

9. What percent of 20 is 4? 9. _____

10. What number is 2% of 18? 10. _____

11. 22% of what number is 11? 11. _____

12. What percent of 400 is 8? 12. _____

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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. _____

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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. _____

5. $I = Prt$ for r 5. _____

6. $y = mx + b$ for x 6. _____

Solve the problem.

7. What number is 5% of 40? 7. _____

8. 15% of what number is 30? 8. _____

9. What percent of 12 is 3? 9. _____

10. What number is 12% of 54? 10. _____

11. 30% of what number is 150? 11. _____

12. 11% of what number is 88? 12. _____

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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 9000 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. _____

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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. _____

5. $P = s_1 + s_2 + s_3$ for s_1 5. _____

6. $P = 2l + 2w$ for l 6. _____

Solve the problem.

7. What number is 6% of 450? 7. _____

8. 12% of what number is 10.2? 8. _____

9. What percent of 40 is 5? 9. _____

10. 15% of what number is 105? 10. _____

11. What percent of 90 is 9? 11. _____

12. What number is 14% of 350? 12. _____

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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. _____