

5.5 Practice B

Write the percent as a fraction or mixed number in simplest form.

1. 35% $\frac{7}{20}$ 2. 81.4% $\frac{407}{500}$ 3. 210% $2\frac{1}{10}$ 4. 0.8% $\frac{1}{125}$

Write the fraction or mixed number as a percent.

5. $\frac{37}{50} = 74\%$ 6. $\frac{21}{25} = 84\%$ 7. $\frac{3}{16} = 18.75\%$ 8. $\frac{19}{40} = 47.5\%$

9. $3\frac{1}{4} = 325\%$ 10. $2\frac{1}{2} = 250\%$ 11. $1\frac{4}{5} = 180\%$ 12. $5\frac{7}{50} = 514\%$

Find the percent.

13. 12 is what percent of 40? 30% 14. 6 is what percent of 16? 37.5%

15. On a school bus, 22 of the 40 students are in window seats. What fraction of the students are in window seats? $\frac{11}{20}$

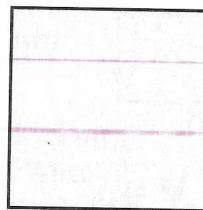
16. You and a friend are selling lemonade. You sell three times as many cups as your friend. What percent of the cups sold were sold by your friend? Explain. 25% . You sold $\frac{3}{4}$ and friend sold $\frac{1}{4}$

17. The United States flag is actually 105% as tall as the state flag of Florida. Write this percent as a mixed number and explain why the perspective in the figure may be misleading. $1\frac{1}{20}$



18. At a zoo, an anaconda is 118% as long as a Burmese python and $1\frac{3}{20}$ times as long as a reticulated python. Which is longer, the Burmese python or the reticulated python? Explain.

19. Copy the square. Then draw another square with sides that are $\frac{1}{2}$ as long. What percent of the area of the original square is the area of the smaller square? $\frac{1}{4}$ or 25%



20. The weight of a tree is doubling every 3 years. In how many years will the weight of the tree be 1600% of its weight now? 12 years.

Key

5.6 Practice B

Find the percent of the number. Explain your method.

- 1. 60% of 40 24
- 2. 10% of 80 8
- 3. 25% of 70 17.5
- 4. 15% of 30 4.5
- 5. 6% of 15 .9
- 6. 65% of 60 39
- 7. 78% of 81 63.18
- 8. 14% of 106 14.84
- 9. 160% of 75 120
- 10. 230% of 45 103.5
- 11. 514% of 205 1053.7
- 12. 115% of 130 149.5

Copy and complete the statement using <, >, or =.

- 13. 55% of 60 < 60% of 65
- 14. 20% of 80 = 80% of 20
- 15. 36% of 150 > 27% of 200
- 16. 110% of 3 > 0.9% of 300
- 17. How many hours is 75% of 3 days? 54 Hours
- 18. How many feet is 20% of 4 miles? 4224 ft.
- 19. A restaurant serves you a 16-fluid ounce glass of juice that is 30% ice. How many fluid ounces of juice do you actually get? 11.2 fl oz.

20. The table shows the grading scale for one of your classes.

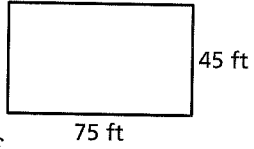
Letter grade	A	B	C	D
Percent range	90–100%	80–89%	70–79%	60–69%

Tell the letter grade that you earn for each score.

- a. You earn 14 out of a possible 20 points on a quiz. C
- b. You earn 66 out of a possible 80 points on a test. B
- c. You earn 216 out of a possible 250 points for a report. B

21. A 15% discount saves you \$5 off the price of an electronic game. How much do you save off the regular price if the discount is raised to 45%? Explain your reasoning. \$15

22. Draw two different rectangles with perimeters that are each 80% of the perimeter of the rectangle shown. Show the length and width of each rectangle.



60ft x 36ft
66ft x 30ft

23. A monitor that regularly costs \$100 is on sale for 15% off. The salesperson offers you 20% off the sale price. What percent of the original price is the salesperson's price? 68%

24. A store pays a manufacturer \$20 for a hat. To make a profit, the store prices the hat 60% higher than the amount they paid. Later, a sale reduces the price of the hat by 10%. Finally, a clearance sale reduces the sale price by 40%. What is the clearance price? Will this price give the store a profit? \$17.28
NO profit