

Sixth Grade: Activity 20 Practice

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Lesson 20-1

1. a. 52%
b. 100%
2. a. 17%
b. 23%
3. $\frac{1}{4}$
4. Check students' grids 75 out of 100
5. D
6. D

Lesson 20-2

7. a. 35%
b. 91%
c. 34%
8. C
9. $\frac{3}{5}$, 68%, 0.72
10. a. 50%; I counted the number of shaded circles and the total number of circles; then I wrote the rate as 4 out of 8, or $\frac{1}{2}$ as a fraction. I then converted this to 50% because it is a benchmark fraction $\frac{1}{2}$.
b. $66\frac{2}{3}\%$; I counted the number of shaded triangles and the total number of triangles; then I wrote the rate as 4 out of 6, or $\frac{2}{3}$ as a fraction. I then converted this to $66\frac{2}{3}\%$ because it is a benchmark fraction.
11. C

Lesson 20-3

12. D
13. 0.786, $\frac{393}{500}$
14. A
15. a. 3 per 100
b. 12
16. Sample answer: Since percent means out of 100, write 28% as 28 out of 100.
17. a. Write 103.9 over 100. Then multiply the numerator and denominator by 10 to remove the decimal. The fraction is $\frac{1,039}{1,000}$.
b. Sample answer: 100% would mean 1 phone for every person. A percent over 100% means that there are more phones than people.
18. Check students' grids for 12 shaded boxes.
19. a. The percent of the Earth's surface that is not water. It is the percent that is land.
b. $\frac{3}{10}$
20. Student should shade 14 of the 20 circles. $\frac{7}{10}$ of the counters are shaded.