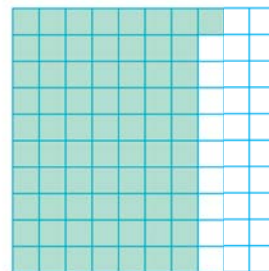


Fractions, Decimals, and Percents TEKS 8.1.B

A **percent** is a ratio with a denominator of 100. The word *percent* means “per hundred,” or “out of one hundred.” The symbol for percent is %.

In the model at the right, 71 of the 100 squares are shaded. You can write the shaded part of the model as a fraction, a decimal, or a percent.



Fraction: seventy-one divided by one hundred, or $\frac{71}{100}$

Decimal: seventy-one hundredths, or 0.71

Percent: seventy-one percent, or 71%

EXAMPLE Write as a fraction.

a. $94\% = \frac{94}{100} = \frac{47}{50}$

b. $20\% = \frac{20}{100} = \frac{1}{5}$

c. $0.3 = \text{three tenths} = \frac{3}{10}$

EXAMPLE Write as a decimal.

a. $15\% = \frac{15}{100} = 0.15$

b. $106\% = \frac{106}{100} = 1.06$

c. $\frac{5}{8} = 5 \div 8 = 0.625$

EXAMPLE Write as a percent.

a. $0.41 = \frac{41}{100} = 41\%$

b. $0.8 = \frac{8}{10} = \frac{80}{100} = 80\%$

c. $\frac{5}{4} = \frac{5 \cdot 25}{4 \cdot 25} = \frac{125}{100} = 125\%$

PRACTICE

Write as a fraction.

1. 0.65

2. 0.08

3. 1.5

4. 0.13

5. 0.7

6. 50%

7. 26%

8. 3%

9. 95%

10. 110%

Write as a decimal.

11. $\frac{1}{4}$

12. $\frac{9}{10}$

13. $\frac{30}{25}$

14. $\frac{2}{5}$

15. $\frac{3}{8}$

16. 16%

17. 142%

18. 1%

19. 30%

20. 6.5%

Write as a percent.

21. 0.6

22. 0.24

23. 1.3

24. 0.07

25. 0.45

26. $\frac{1}{10}$

27. $\frac{4}{5}$

28. $\frac{17}{20}$

29. $\frac{5}{2}$

30. $\frac{3}{16}$