

Lesson 6.2 Fractions, Decimals, and Percents

Find each product.

1. $\frac{3}{4} \times 32$

2. $\frac{5}{6} \times 54$

3. $\frac{4}{9} \times 30$

4. $\frac{2}{21} \times 66$

Express each fraction or mixed number as a percent.

Example

$$\frac{3}{7} = \frac{3}{7} \times \boxed{100}\%$$

Multiply the fraction by 100%.

$$= \frac{\boxed{300}}{\boxed{7}}\%$$

Write the improper fraction as a mixed number.

$$= \underline{\quad} \frac{\boxed{6}}{\boxed{7}}\%$$

$$100\% = \frac{100}{100} = 1$$

So, $\frac{3}{7} \times 100\% = \frac{3}{7} \times 1$.



5. $\frac{1}{6} = \frac{1}{6} \times \boxed{\quad}\%$

Multiply the fraction by 100%.

$$= \frac{\boxed{\quad}}{\boxed{\quad}}\%$$

Write the improper fraction as a mixed number.

$$= \underline{\quad}\%$$

6. $1\frac{2}{3} = 1\frac{2}{3} \times \boxed{\quad}\%$

Multiply the fraction by 100%.

$$= \frac{\boxed{\quad}}{3} \times \boxed{\quad}\%$$

Write the mixed number as an improper fraction.

$$= \frac{\boxed{\quad}}{\boxed{\quad}} = \underline{\quad}\% \text{ Simplify.}$$

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7. $\frac{5}{8}$

8. $2\frac{4}{7}$

Express each decimal as a percent.*Example***Method 1**

$$0.12 = \frac{\boxed{12}}{100}$$

$$= \underline{12}\%$$

First, express the decimal as a fraction with a denominator of 100. Then rewrite the fraction as a percentage.

**Method 2**

$$0.12 = 0.12 \times \boxed{100}\%$$

$$= \underline{12}\%$$

$100\% = \frac{100}{100} = 1$
So, $0.12 \times 100\% = 0.12 \times 1$



9. 0.58

Method 1

$$0.58 = \frac{\boxed{}}{100}$$

$$= \underline{}\%$$

Method 2

$$0.58 = 0.58 \times \boxed{}\%$$

$$= \underline{}\%$$

10. 0.73

11. 0.4

12. 0.02

13. 5.01

Express each percent as a fraction in simplest form.*Example*

$$14\frac{2}{7}\% = \frac{\frac{100}{7}}{7}\%$$

$$= \frac{\frac{100}{7}}{7} \div \frac{100}{100}$$

$$= \frac{\frac{100}{7}}{7} \times \frac{1}{100}$$

$$= \frac{100}{700}$$

$$= \frac{1}{7}$$

Express the mixed number as an improper fraction.

Divide by 100 to express the percent as a fraction.

Rewrite using the reciprocal of the divisor.

Multiply.

Simplify.

To express $n\%$ as a fraction, divide n by 100.In this case, divide $14\frac{2}{7}$ by 100.

14. $37\frac{1}{2}\% = \underline{\hspace{2cm}}\%$

$$= \underline{\hspace{2cm}} \div \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

Express the mixed number as an improper fraction.

Divide by 100 to express the percent as a fraction.

Rewrite using the reciprocal of the divisor.

Multiply.

Simplify.

15. $5\frac{1}{4}\%$

16. $7\frac{3}{8}\%$

17. $66\frac{2}{3}\%$

18. $55\frac{5}{9}\%$

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Express each percent as a fraction in simplest form.

Example

$$41.8\% = \frac{41.8}{100}$$

Express the decimal as a fraction.

$$= \frac{418}{1,000}$$

Multiply the numerator and denominator by 10 to make the numerator a whole number.

$$= \frac{209}{500}$$

Simplify.

19. 25.5% = _____

Express the decimal as a fraction.

= _____

Multiply the numerator and denominator by 10 to make the numerator a whole number.

= _____

Simplify.

20. 6.02% = _____

Express the decimal as a fraction.

= _____

Multiply the numerator and denominator by 100 to make the numerator a whole number.

= _____

Simplify.

21. 8.9%

22. 15.17%

23. 54.8%

24. 69.35%