



Writing Fractions as Percents

• Example 1

Write $\frac{1}{8}$ as a percent.

$$\frac{1}{8} = 0.125 = 12.5\% \text{ or } 12\frac{1}{2}\%$$

• • • CHECK YOURSELF 1

Write $\frac{3}{8}$ as a percent.

• Example 2

Approximate $\frac{5}{7}$ by a percent, to the nearest tenth of a percent.

$$\frac{5}{7} \text{ is approximately equal to } 0.714 = 71.4\%$$

Thus, $\frac{5}{7}$ is approximately equal to 71.4%, to the nearest tenth of a percent.

• • • CHECK YOURSELF 2

Approximate $\frac{2}{9}$ to the nearest tenth of a percent.

• • • CHECK YOURSELF ANSWERS

1. 37.5% or $37\frac{1}{2}\%$. 2. 22.2%.
-

4.4 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

Rewrite each fraction as a percent. Approximate to the nearest tenth of a percent when necessary.

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

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

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

4. $\frac{1}{2}$

5. $\frac{1}{5}$

6. $\frac{3}{4}$

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

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

9. $\frac{5}{16}$

10. $1\frac{1}{5}$

11. $3\frac{1}{2}$

12. $\frac{2}{3}$

13. $\frac{1}{6}$

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

15. $2\frac{3}{4}$

16. $\frac{3}{5}$

17. $7\frac{4}{5}$

18. $\frac{1}{8}$

19. $\frac{7}{16}$

20. $2\frac{1}{4}$

21. $\frac{5}{6}$

22. $\frac{5}{13}$

23. $\frac{7}{9}$

24. $\frac{5}{11}$

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

Between 1973 and 1990, the average fuel efficiency of new U.S. cars increased from 6.4 to 11.9 kilometers per liter. During this same time, the average fuel efficiency for the entire fleet of U.S. cars rose from 5.3 to 8.3 km/L. For Exercises 25 and 26, solve the applications involving fuel efficiency. Round to the nearest tenth of a percent.

25. Fuel efficiency. The percentage increase in fuel efficiency for new cars is

given by the fraction $\frac{(11.9 - 6.4)}{6.4}$. Change this fraction to a percent.

26. Fuel efficiency. The percentage increase in fuel efficiency for the fleet of U.S.

cars is given by the fraction $\frac{(8.3 - 5.3)}{5.3}$. Change this fraction to a percent.