

Turning Percentages into Fractions

Worksheet 6

To turn a percentage to a fraction.

This is simple to do because you already know how to turn a percentage to a decimal (divide by 100), and how to turn a decimal to a fraction, (by counting the number of digits after the decimal point.)

You just follow these same two steps to turn a percentage to a fraction; **first** divide the percentage by 100, **and second**, turn it to a fraction according to how many digits there are after the decimal point.

- **One digit** after the decimal point means "tenths".
- **Two digits** after the decimal point mean "hundredths".
- **Three digits** after the decimal point mean "thousandths".

Example 1 One digit after the decimal point means "tenths".

a. (Divide the percentage by 100 to turn it into a decimal.) $60\% \rightarrow 60 \div 100 = 0.6$

b. (Count the number of digits after the decimal point.) $0.6 = \frac{6}{10}$

Example 2 Two digits after the decimal point mean "hundredths".

a. (Divide the percentage by 100 to turn it into a decimal.) $3\% \rightarrow 3 \div 100 = 0.03$

b. (Count the number of digits after the decimal point.) $0.03 = \frac{3}{100}$

Example 3 Three digits after the decimal point mean "thousandths".

a. (Divide the percentage by 100 to turn it into a decimal.) $7.5\% \rightarrow 7.5 \div 100 = 0.075$

b. (Count the number of digits after the decimal point.) $0.075 = \frac{75}{1000}$

REMEMBER:

ALWAYS give fractions in their simplest terms.

e.g. $\frac{3}{10}$ and not $\frac{30}{100}$

$\frac{5}{6}$ and not $\frac{10}{12}$

$\frac{3}{4}$ and not $\frac{75}{100}$

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Exercises.

Turn these percentages into fractions.

1. 65%

2. 82%

3. 8%

4. 20%

5. 59%

6. 30%

7. 16.5%

8. 1.7%

9. 3%

10. 2.8%

11. 17.5%

12. 16.8%

13. 3%

14. 8.9%

15. 61.4%

16. 13%

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17. 86.2%

18. 1.7%

19. 8.6%

20. 42%

21. 12.1%

22. 0.5%

23. 99.9%

24. 100%

TOTAL: /24