MATHEMATICS · GRADES 4-6

Converting percentages to decimals

Difficulty level: Intermediate

Mathematics: Grades 4-6

This document was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

Overview of the concept

This is how you turn a percent into a decimal you can multiply by. Working out a sale price or a tip from a percent off or a percent of a bill starts with this conversion. It is a small step, but it is the one that turns a percentage on a sign into an actual dollar amount.



© 2026 Brett Robbins. All Rights Reserved.

Worked examples

EXAMPLE 1

Q How do you write 35% as a decimal?

SOLUTION

Percent means out of 100, so 35% is 35 out of 100.

35 ÷ 100 = 0.35

So 35% = 0.35

EXAMPLE 2

Q How do you write 8% as a decimal?

SOLUTION

Percent means out of 100, so 8% is 8 out of 100.

8 ÷ 100 = 0.08

Watch the trap: 8% is not 0.8. The 8 needs a zero in front of it, because 8 out of 100 is smaller than 8 out of 10.

© 2026 Brett Robbins. All Rights Reserved.

Practice questions

1 **Write 50% as a decimal.**

Understand It with Pulse | Flag a mistake

2 **Write 6% as a decimal.**

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

3 Which percent equals 0.35?

- A 35%
- B 3.5%
- C 0.35%
- D 350%

Understand It with Pulse | Flag a mistake

4 Which decimal equals 60%?

- A 0.6
- B 6.0
- C 0.06
- D 60.0

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

5 **Write these as decimals in order from smallest to largest: 45%, 0.4, 0.35.**

Understand It with Pulse | Flag a mistake

6 **Which is greater, 0.09 or 8%? Write the greater one as a decimal.**

Understand It with Pulse | Flag a mistake

7 **Write 100% as a decimal.**

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

8 Write 125% as a decimal.

Understand It with Pulse | Flag a mistake

9 Write 4.5% as a decimal.

Understand It with Pulse | Flag a mistake

10 Which is greater: 0.26 or 35%?

A 26% (0.26)

B 35% (0.35)

C 35% (3.5)

D 3.5% (0.035)

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

ANSWER KEY

1. 0.5

2. 0.06

3. 35%

4. 0.6

5. 0.35, 0.4, 0.45

6. 0.09

7. 1

8. 1.25

9. 0.045

10. 35% (0.35)

© 2026 Brett Robbins. All Rights Reserved.