MATHEMATICS · GRADES 7-9

Tips

Difficulty level: Intermediate

Mathematics: Grades 7-9

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 work out a fair tip on a restaurant bill, so you can thank your server properly and know the exact total before you pay. The tip is worked out from the bill, so a bigger bill means a bigger tip, and a smaller bill means a smaller one. Adding the tip to the bill gives you the exact total, so there are no surprises when the card machine comes around. That is how you leave the table knowing you paid fairly, and knowing exactly what the meal cost you.



Rule

Tips: tip = rate × bill.

Turn the rate into a decimal, multiply it by the bill to get the tip. Total = bill + tip.

© 2026 Brett Robbins. All Rights Reserved.

Worked examples

EXAMPLE 1

Q A meal costs $40. You leave a 20% tip. How much is the tip, and what is the total?

SOLUTION

This is a tip question, so the one rule to remember is: find 10% first by moving the decimal one place left, then build the tip you need from it. Doubling 10% is far easier than working out 20% from scratch.

10% of $40 is $4, so a 20% tip is double that: $8

Add the tip to the bill: $40 + $8 = $48 in total.

EXAMPLE 2

Q A meal costs $60. You leave a 15% tip. How much is the tip, and what is the total?

SOLUTION

This is the same question type with a 15% tip, so build it from the same 10% starting point: 15% is 10% plus half of 10%.

10% of $60 is $6, and half of that is $3, so the tip is $6 + $3 = $9.

Add the tip to the bill: $60 + $9 = $69 in total.

© 2026 Brett Robbins. All Rights Reserved.

Practice questions

1 **What is a 10% tip on a $35 meal?**

Understand It with Pulse | Flag a mistake

2 **What is a 20% tip on a $50 meal?**

Understand It with Pulse | Flag a mistake

3 **What is a 25% tip on an $80 meal?**

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

4 **A restaurant bill is $64. How much is a 15% tip?**

Understand It with Pulse | Flag a mistake

5 **A meal costs $45. You leave a 20% tip. What is the total amount you pay?**

Understand It with Pulse | Flag a mistake

6 **Four friends share a $96 bill and leave a 20% tip. How much does each person pay?**

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

7 Your bill is $50 and you leave a $7.50 tip. What percent tip did you leave?

Understand It with Pulse | Flag a mistake

8 A $60 meal has a $15-off coupon. You tip 20% on the original price. How much is the tip?

Understand It with Pulse | Flag a mistake

9 What is an 18% tip on an $85 bill?

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

10

Which tip is bigger?

A 20% of $42

B 15% of $60

Understand It with Pulse

Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

ANSWER KEY

1. 3.50

2. 10

3. 20

4. 9.60

5. 54

6. 28.80

7. 15

8. 12

9. 15.30

10. 15% of $60

© 2026 Brett Robbins. All Rights Reserved.