

Tax Math Moves

Find the tax, then find the final amount.

GRADE 7 • TEKS 7.13.A

7.13.A "calculate the sales tax for a given purchase and calculate income tax for earned wages;"

NAME _____

DATE _____

FIND THE TAX

To find a tax amount, change the percent to a decimal and multiply it by the price or wages. For a purchase, add sales tax to the price. For wages, subtract income tax from the earnings to find take-home pay.

WORKED EXAMPLE

A board game costs \$45. The sales tax rate is 6%. Find the sales tax and total cost.

1. Change 6% to 0.06.
2. Find the tax: $0.06 \times 45 = 2.70$.
3. Add the tax: $45 + 2.70 = 47.70$.

Answer: Sales tax: \$2.70; total cost: \$47.70

PRACTICE 6 problems

- 1** A notebook costs \$28. The sales tax rate is 5%. Find the sales tax and total cost.

ANSWER _____

- 2** A pair of headphones costs \$72. The sales tax rate is 8%. Find the sales tax and total cost.

ANSWER _____

- 3** A sketchbook costs \$16. The sales tax rate is 7.5%. Find the sales tax and total cost.

ANSWER _____

- 4** You earn \$120 helping at a school event. Income tax is 10% of your wages. Find the income tax and take-home pay.

ANSWER _____

- 5** You earn \$84 walking dogs. Income tax is 5% of your wages. Find the income tax and take-home pay.

ANSWER _____

- 6** You earn \$250 from a weekend job. Income tax is 12% of your wages. Find the income tax and take-home pay.

ANSWER _____

APPLY IT Show your work

- 1** Ava buys a \$36 game controller accessory. The sales tax rate is 7%. How much sales tax does Ava pay, and what is the total cost?

WORK SPACE

ANSWER _____

- 2** Mateo earns \$96 tutoring younger students. Income tax is 15% of his wages. How much income tax is taken out, and how much take-home pay does Mateo receive?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A sweatshirt has an original price of \$80. You use a 25% off coupon, then pay 9% sales tax on the discounted price. What is the final cost of the sweatshirt?

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A notebook costs \$28. The sales tax rate is 5%. Find the sales tax and total cost.	Sales tax: \$1.40; total cost: \$29.40
2	A pair of headphones costs \$72. The sales tax rate is 8%. Find the sales tax and total cost.	Sales tax: \$5.76; total cost: \$77.76
3	A sketchbook costs \$16. The sales tax rate is 7.5%. Find the sales tax and total cost.	Sales tax: \$1.20; total cost: \$17.20
4	You earn \$120 helping at a school event. Income tax is 10% of your wages. Find the income tax and take-home pay.	Income tax: \$12.00; take-home pay: \$108.00
5	You earn \$84 walking dogs. Income tax is 5% of your wages. Find the income tax and take-home pay.	Income tax: \$4.20; take-home pay: \$79.80
6	You earn \$250 from a weekend job. Income tax is 12% of your wages. Find the income tax and take-home pay.	Income tax: \$30.00; take-home pay: \$220.00

PART 2 • APPLY IT

- Sales tax: \$2.52; total cost: \$38.52** Multiply \$36 by 0.07 to find \$2.52 in sales tax. Add \$2.52 to \$36 to get \$38.52.
- Income tax: \$14.40; take-home pay: \$81.60** Multiply \$96 by 0.15 to find \$14.40 in income tax. Subtract \$14.40 from \$96 to get \$81.60.

CHALLENGE

\$65.40

Accept equivalent decimal money notation, such as \$12 instead of \$12.00. For the challenge, students should apply the discount before calculating sales tax.