

Sales Tax — Advanced Practice

Real-world challenges · 6% sales tax · round to the nearest cent

NAME

DATE

Methods You Will Use

One item:

$$\text{Total} = \text{Price} \times 1.06$$

The 1 keeps the original price; the 0.06 adds the 6% tax.

Two items together — add first, then multiply:

$$(\text{Price} + \text{Price}) \times 1.06$$

Tax is worked out on the whole combined price, not on each item separately.

Checking your budget:

Compare the total *with tax* to your budget. If the total is more than the budget you cannot afford it. Subtract to find how much is left over, or how much you are over by.

Round every answer to the nearest cent.

1. Windbreaker

Budget \$50.00

Price before tax: **\$44.79**

Total: **\$44.79** $\times$ **1.06** = \$

Can you afford it?

YES

NO

(circle one)

Money left over / amount over budget: \$

2. Two items together

Budget \$25.00

Fleece Gloves — **\$13.85** Knit Scarf — **\$10.44**

Step 1 — add the prices: **\$13.85** + **\$10.44** = \$

Step 2 — total with tax: **combined** $\times$ **1.06** = \$

Can you afford it?

YES

NO

(circle one)

Money left over / amount over budget: \$

3. Two items together

Budget \$70.00

Keyboard — **\$38.74** Mouse — **\$24.98**

Step 1 — add the prices: **\$38.74** + **\$24.98** = \$

Step 2 — total with tax: **combined** $\times$ **1.06** = \$

Can you afford it?

YES

NO

(circle one)

Money left over / amount over budget: \$

4. Kick Scooter

Budget \$90.00

Price before tax: **\$84.17**Total: $\$84.17 \times 1.06 = \$$

Can you afford it?

☐ YES☐ NO

(circle one)

Money left over / amount over budget: \$

5. Two items together

Budget \$35.00

Frying Pan — **\$21.95** Utensil Set — **\$12.48**Step 1 — add the prices: $\$21.95 + \$12.48 = \$$ Step 2 — total with tax: **combined** $\times 1.06 = \$$

Can you afford it?

☐ YES☐ NO

(circle one)

Money left over / amount over budget: \$

6. Two items together

Budget \$45.00

Sweatpants — **\$27.60** Wool Socks — **\$8.87**Step 1 — add the prices: $\$27.60 + \$8.87 = \$$ Step 2 — total with tax: **combined** $\times 1.06 = \$$

Can you afford it?

☐ YES☐ NO

(circle one)

Money left over / amount over budget: \$

Challenge 1: Party Budget

Budget \$90.00

Find each total with tax, then add them up.

Pizzas: $\$38.29 \times 1.06 = \$$

Drinks: $\$16.70 \times 1.06 = \$$

Cake: $\$27.99 \times 1.06 = \$$

Grand total (add the three totals): $\$$

Is it within the \$90.00 budget?

YES

NO

(circle one)

How much is left over? $\$$

Challenge 2: Best Price

The same tablet is on sale at three stores. Find each total with tax, then pick the cheapest.

Store A: $\$117.80 \times 1.06 = \$$

Store B: $\$124.55 \times 1.06 = \$$

Store C: $\$115.09 \times 1.06 = \$$

Which store has the lowest total cost?

Store A

Store B

Store C

(circle one)

How much do you save compared with the most expensive store? \$

Reflection — write 1–2 sentences for each

1. Why does every item cost more than the price on the tag?

2. In Problem 5 the total went over budget. What are two things you could do to stay within \$35.00?

3. In Challenge 2 all three stores sell the same tablet. Why should you work out the total with tax before you decide where to buy?