Name: ______________________ Date: ______________

Long Term Plan With Tax

GRADE 8 | MATHEMATICS | F1.2 | F1.3

Create a realistic long-term plan using projected income, spending behavior, and tax on purchases.

PART A: PLAN THE GOAL

1. A student wants a $240 reward in 12 weeks. Their expected income is $26/week and planned spending before tax is $9/week. Store tax is 5% on spending. Can they reach the goal?

SHOW YOUR WORK

Answer: ______________

2. To close a $41.40 shortfall over 12 weeks, how much extra net savings per week is needed?

SHOW YOUR WORK

Answer: ______________

3. If income increases by $4/week but spending also rises by $1/week (before tax), what is the new net weekly gain at 5% tax?

SHOW YOUR WORK

Answer: ______________

4. A student records only pre-tax spending in their plan. Why is this risky for long-term goals?

SHOW YOUR WORK

Answer: ____________________

5. A plan has weekly income $30 and taxed spending $12.60. What is projected savings after 15 weeks?

SHOW YOUR WORK

Answer: ____________________

PART B: TAX AND BUDGET CHECKS

6. A pre-tax purchase is $18.00 at 5% tax. Tax amount: $__________.

7. If weekly taxed spending is $10.50 and weekly income is $24, weekly net savings is $ __________.

8. A budget category is cut by 10% from $22. New value: $__________.

PART C: YOUR REVISED PLAN

9. Write a long-term plan for one target reward: projected weekly income, taxed weekly spending, weekly net savings, and one contingency adjustment if actual results fall behind.

SHOW YOUR WORK

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ANSWER KEY

1. Taxed spending is $9.45/week, net weekly savings is $16.55, over 12 weeks $198.60. They will not reach $240 (short $41.40).
2. $3.45 extra per week.
3. Extra taxed spending is $1.05, so net gain increases by $2.95/week.
4. It underestimates true expenses, causing the plan to overestimate savings and miss the goal timeline.
5. $261.00.
6. $0.90
7. $13.50
8. $19.80
9. Answers vary. Check for explicit tax treatment, realistic weekly net, and a concrete contingency step.

TEACHER NOTES

Have students run a midpoint review against actual transaction history and publish one evidence-based revision to their original plan.