LESSON MAKER PRO

Budget Math Lab

Find a weekly budget and the hourly wage a family needs.

GRADE 7 · TEKS 7.13.D

7.13.D "use a family budget estimator to determine the minimum household budget and average hourly wage needed for a family to meet its basic needs in the student's city or another large city nearby;"

NAME _____ DATE _____

WEEKLY BUDGET RULE

Add the weekly costs for basic needs to find the minimum household budget. Then divide that budget by the total hours all adults work in one week to find the average hourly wage needed. The worked example and original practice costs are fictional teaching values. The local estimator task uses teacher-supplied city estimates. Results are estimates under the stated household, cost and work-hour assumptions.

WORKED EXAMPLE

A family needs $1,120 each week for basic needs. The adults work 70 total hours each week. What average hourly wage do they need?

1. Minimum weekly budget = $1,120.
2. Total work hours = 70.
3. $1,120 / 70 = $16.

Answer: $16 per hour

PRACTICE 4 problems

1 A budget estimator says a family needs $840 each week. The adults work 70 total hours each week. What average hourly wage do they need?

ANSWER _____

2 A family's weekly basic costs are $400 for housing, $180 for food, $120 for transportation, and $100 for utilities. What is the minimum weekly household budget?

ANSWER _____

3 A family needs $1,080 each week for basic needs and works 90 total hours each week. What average hourly wage do they need?

ANSWER _____

4 A family's weekly costs are $350 for housing, $150 for food, $90 for transportation, and $60 for utilities. The adults work 50 total hours each week. Find the minimum weekly budget and the average hourly wage needed.

ANSWER _____

APPLY IT Show your work

1 In this fictional practice example, Aiden uses a family budget estimator. It lists weekly costs of $540 for housing, $210 for food, $90 for transportation, $120 for utilities, and $80 for health care. The adults work 80 total hours each week. What minimum weekly budget and average hourly wage does the family need?

WORK SPACE

ANSWER _____

2 Jordan's family wants a work schedule that leaves time for Jordan's soccer practices. Their budget estimator says basic needs cost $900 per week. One adult would work 30 hours and the other would work 45 hours. What average hourly wage would the family need?

WORK SPACE

ANSWER _____

3 Use the Our City Family Budget Estimator below with your teacher's local input sheet. Record the city, estimate date, fictional household size and source names on separate paper. Transfer the weekly basic-needs estimates into the table, including any other needed categories. Add them to estimate the minimum weekly household budget under those assumptions. Divide by the sheet's combined weekly paid hours to find the average hourly take-home wage needed. Show the calculation, check units and explain one limitation.

OUR CITY FAMILY BUDGET ESTIMATOR · WEEKLY COSTS ($)

Basic need	Local weekly estimate
Housing	
Food	
Transportation	
Utilities	
Health care	
Other basic needs	

ANSWER _____

CHALLENGE One step up

A family estimates weekly basic costs of $720 for housing, $240 for food, $120 for transportation, and $120 for utilities. Under Schedule A, the adults work 75 total hours. Under Schedule B, they work 80 total hours. Find the minimum weekly budget and the hourly wage needed for each schedule. Which schedule requires the lower average hourly wage? Explain why.

WORK SPACE AND ANSWER

ANSWER KEY # Budget Math Lab

GRADE 7 · TEKS 7.13.D

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A budget estimator says a family needs $840 each week. The adults work 70 total hours each week. What average hourly wage do they need?	**$12 per hour**
2	A family's weekly basic costs are $400 for housing, $180 for food, $120 for transportation, and $100 for utilities. What is the minimum weekly household budget?	**$800**
3	A family needs $1,080 each week for basic needs and works 90 total hours each week. What average hourly wage do they need?	**$12 per hour**
4	A family's weekly costs are $350 for housing, $150 for food, $90 for transportation, and $60 for utilities. The adults work 50 total hours each week. Find the minimum weekly budget and the average hourly wage needed.	**Minimum budget: $650; average hourly wage: $13 per hour**

PART 2 · APPLY IT

1. **Minimum budget: $1,040; average hourly wage: $13 per hour** Add the five weekly costs to get $1,040. Divide $1,040 by 80 hours to get $13 per hour.
2. **$12 per hour** Add the work hours, 30 + 45 = 75. Divide $900 by 75 to get $12 per hour.
3. **Answers depend on the teacher-supplied local inputs: weekly budget B = sum of all basic-needs estimates; required average hourly take-home wage = B ÷ H for positive combined weekly paid hours H.** Before learner use, teacher must supply a dated input sheet for the student's city or a nearby large city, identifying local estimate sources, a fictional household size, all needed cost categories and positive combined paid hours. Convert costs to a common weekly basis and explain conversions. Learners actually fill and use the estimator, record sources/assumptions, total costs, divide and verify units. Check against the supplied inputs. Net income covers the stated costs; gross wage would require a separate tax adjustment. No personal family finances are required.

CHALLENGE

Minimum weekly budget: $1,200. Schedule A: $16 per hour. Schedule B: $15 per hour. Schedule B requires the lower wage because the same $1,200 budget is divided among more work hours.

Accept equivalent wording such as "$12 an hour." Students should add all listed weekly basic costs before dividing by the combined weekly work hours. The local estimator activity requires the completed teacher input sheet before use. Accept additional basic-needs rows on separate paper. Verify every transferred cost, common weekly basis, sum and wage division, plus city/source/date/household assumptions. Do not grade fictional practice amounts as current local data or claim an estimate is a universal guaranteed minimum.