



Survival Maths

Around the Home

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The *Survival Maths* series is designed to help students gain confidence in performing everyday tasks that require maths.

Students will be drawn into not only doing these exercises, but doing them with enthusiasm. The material is of immediate relevance, and is therefore meaningful to his/her experience.

Skills to be learned from the exercises include:

- mathematical problem solving,
- awareness of how to approach problem solving,
- analysis of situations,
- defining and working towards a goal,
- the numerous life skills required for daily personal management of money, time and work.

Apart from providing the opportunity for mathematical problem solving, these books are of relevance to home economics' classes, basic commercial studies and for students of English as a second language, they provide a coverage of terminology of everyday situations and procedures.

There are four books in the series:

- 3416 Food Shopping
- 3415 Money
- 3414 On the Job
- 3417 Around The Home

The topics covered in *Around the Home* are as follows:

- Earning Money at Home
- Budgeting on Pocket Money
- Scheduling Time
- Spending Money at Home
- Using Maths in Cooking
- Measuring
- Following a Recipe
- Planning a Party
- Ordering from a Catalogue
- Taking Measurements

The Answer Section is at the back of the book.



Around the Home

Earning Money at Home

Name _____

Pretend that you are going to put on a show for your friends and neighbours.

Choose one of the following: *a haunted house, a circus, or a play.*

Which one did you choose? _____

1. In the spaces below, list all of your *expenses*. (Include anything that you have to pay for: helpers, food, prizes, materials, etc.)

Item	Cost per Item	Total Cost	Item	Cost per Item	Total Cost
Example: 20 ice creams	\$.15	\$3.00	_____	\$ _____	\$ _____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

2. What are your *total* expenses? _____

3. In the spaces below, list all the things you plan to sell. (Include anything your customers may buy: tickets, food, drinks, etc.)

Item	Price	Item	Price
Example: ice creams	\$.20 each	_____	\$ _____
_____	_____	_____	_____
_____	_____	_____	_____

4. The show is over! Let's see if you make a profit or lost money. Make a list of *all* the things you sold. Figure out how much money you earned for each item.

Item	Total Income per Item	Item	Total Income per Item
Example: 20 ice creams	\$ 4.00	_____	\$ _____
_____	_____	_____	_____
_____	_____	_____	_____

5. What was your total income for all items? _____

6. What were your total expenses? _____

7. Did you make a profit or lose money? _____

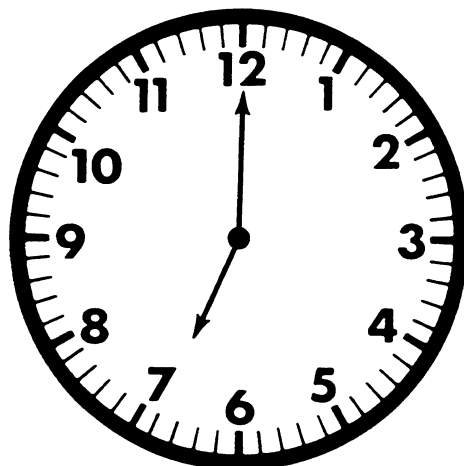
8. How much? _____

9. What could you have done to earn more money? Write your ideas on the lines below.

Around the Home

Scheduling Time

Name _____



SUSAN'S DAILY TIMETABLE

7:00 A.M. Get up.	3:00-3:30 P.M. Walk home.
7:00-7:30 A.M. Shower; get dressed.	3:30-5:00 P.M. Free time.
7:30-7:45 A.M. Eat breakfast.	5:00-6:00 P.M. Eat dinner.
7:45-8:15 A.M. Walk to school.	6:00-7:30 P.M. Do homework.
8:30-11:45 A.M. Attend classes.	7:30-8:30 P.M. Watch TV.
11:45-12:30 P.M. Eat lunch.	8:30-9:30 P.M. Read in bed.
12:30-3:00 P.M. Attend classes.	9:30 P.M. Go to sleep.

Use Susan's timetable above to answer the questions below.

1. How much time each day does Susan usually spend eating? _____
2. Yesterday Susan was 15 minutes late for her first class. What time did she arrive? _____
3. Sometimes Susan likes to get up a half-hour early. On those days what time does she get up?

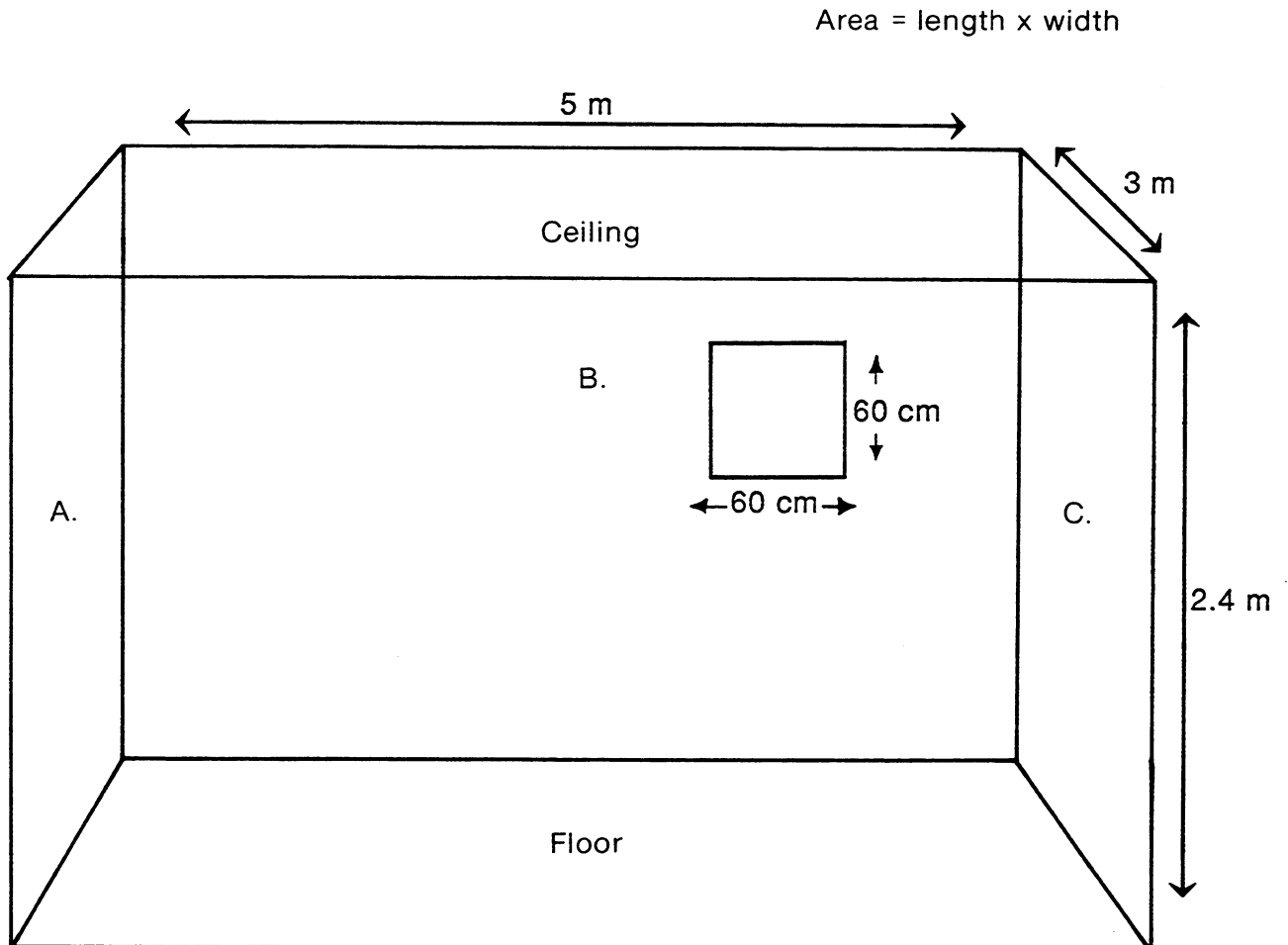
4. How much time does Susan usually spend watching TV each day? _____
5. Susan decided that she would like to take banjo lessons. What would be the best time of day for her to schedule the lessons? _____
6. How many hours of sleep does Susan usually get each night? _____
7. Susan's parents think she should watch less TV. They want her to watch only *half* as much as she does now. How much TV do they want her to watch each night? _____
8. How many hours a day is Susan in class? _____
9. How long does it take Susan to walk to school? _____

Around the Home

Taking Measurements

Name _____

Use this diagram of a room to answer the questions below.



1. What is the area of wall A? _____ Wall B? _____ Wall C? _____
2. How many square metres of carpeting are needed to completely cover the floor? _____
3. Carpeting costs \$140.90 a square metre. What is the total cost of carpeting this room? _____
4. A litre of paint covers about 20 square metres. How many litres will be needed to paint 2 small walls, 1 large wall, and the ceiling? _____
5. Will a 2 metre sofa and 2.5 metre table fit along wall A? _____ Will the sofa and table fit along wall B? _____
6. How many square metres of wallpaper would be needed to cover wall B? _____
7. Draw a small window in wall B. The window will measure 60 cms in height and 60 cms in width. What is the area of the window? _____ Now what is the surface area of wall B (minus the area of the window)? _____