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AVAILABLE FROM Center for Vocational Education Publications, The Ohio State University, 1960 Kenny Road, Columbus, Ohio 43210 (\$4.50; Level I Classroom Set, \$65.00, includes instructor's guide, 15 student workbooks, audio tapes with script; Further information on other complete sets is available on request

EDRS PRICE MF-\$0.83 HC-\$3.50 Plus Postage.
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ABSTRACT This workbook and the accompanying instructor's guide, three audio tape cassettes, and script for the audio tape comprise the Adult Basic Education Level I (grade 1.5) package on the metric system. The workbook's six sections follow a problem solving approach and present measurement activities similar to those involved in daily activities (i.e., preparing foods and reading temperatures). The six sections correspond to the six sections in the instructor's guide and to the audio tape. Section titles are Linear Measurement, Measurement of Weight, Review of Linear and Weight Measurement, Measurement of Capacity, Measurement of Temperature, and Final Review. Supplementary diagrams and charts are included. (SH)

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Metrics for Good Measure

LEVEL I. STUDENT WORKBOOK.

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U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

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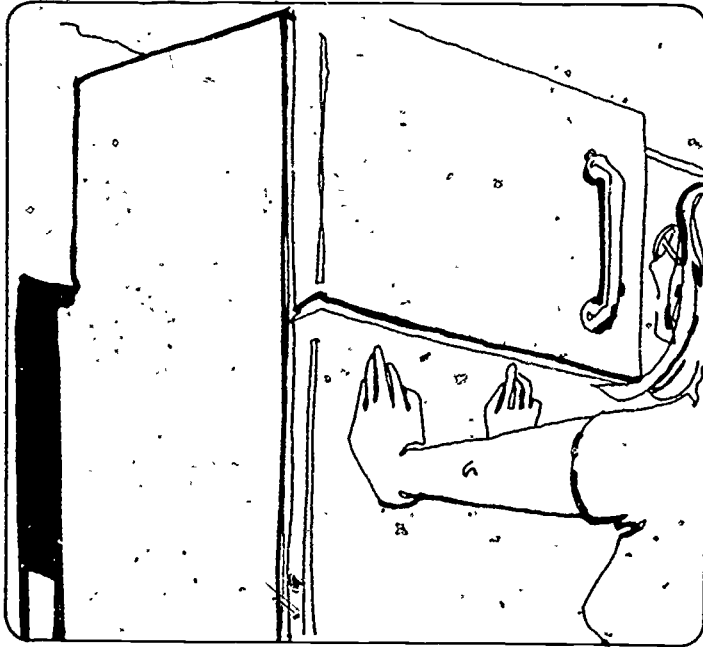
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SECTION A

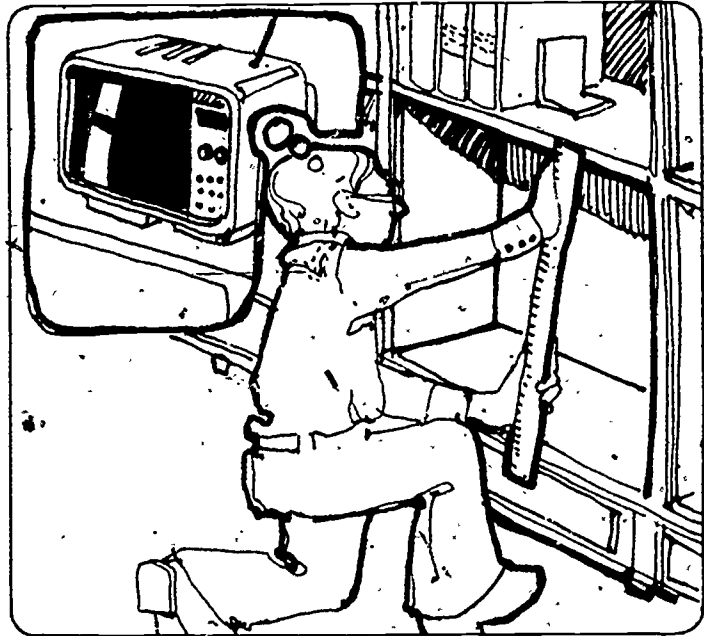


1. This is too high!

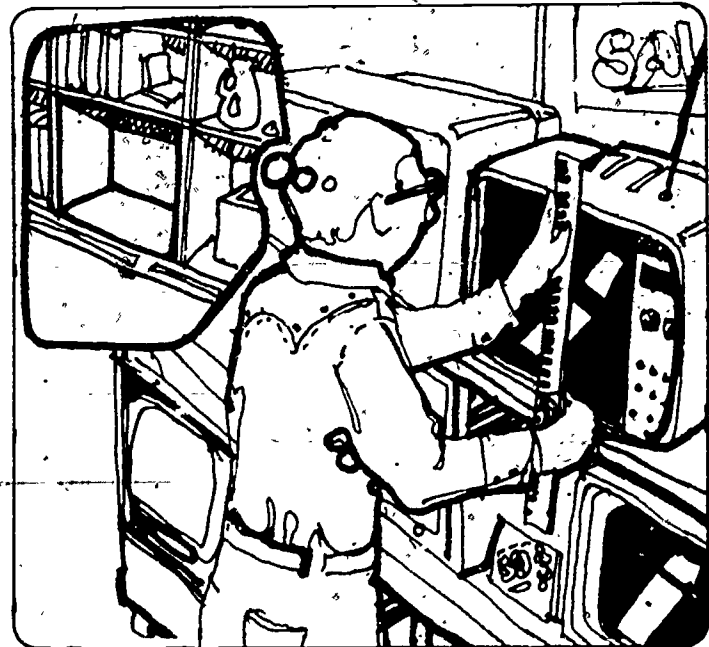


2. Use a metre stick to find height.

3. Use a metre stick to find height.



4. This is too high!

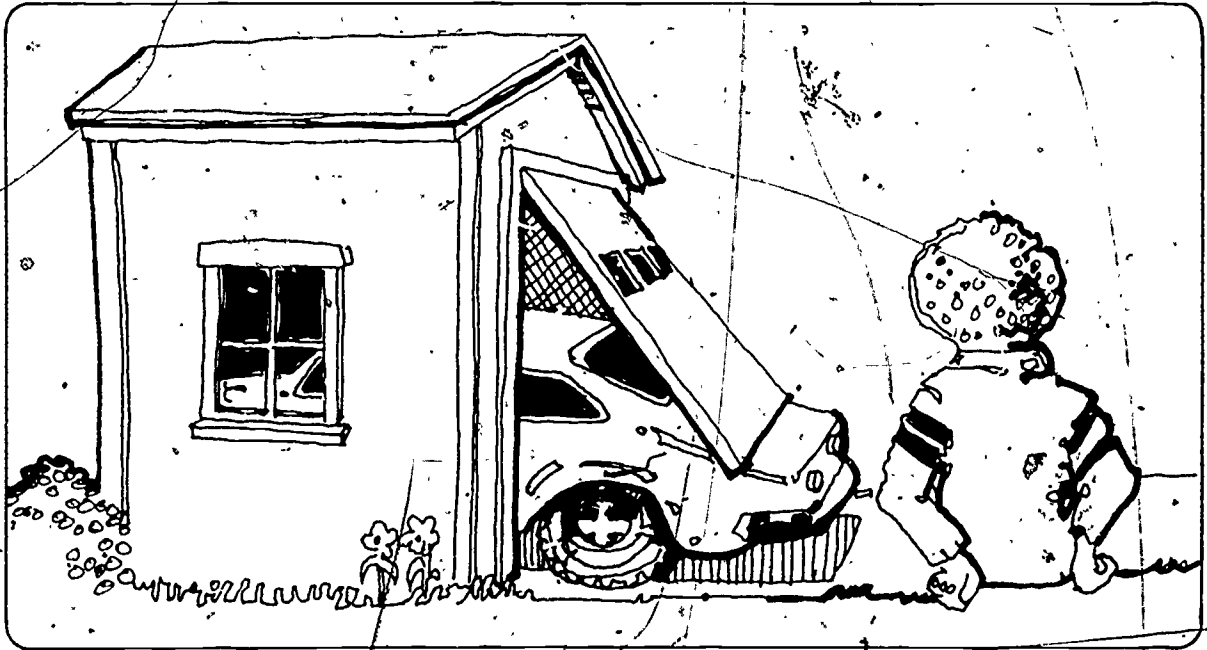




5. The sofa is too wide!

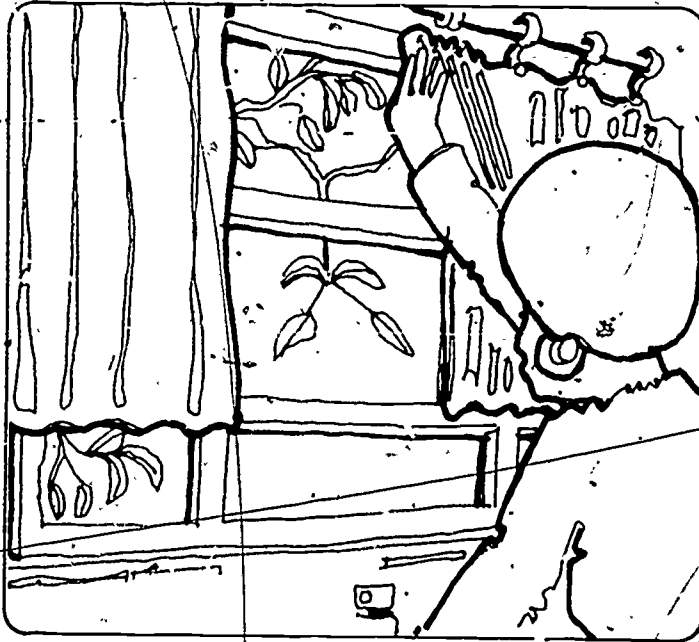


6. You can find width with a metre stick.

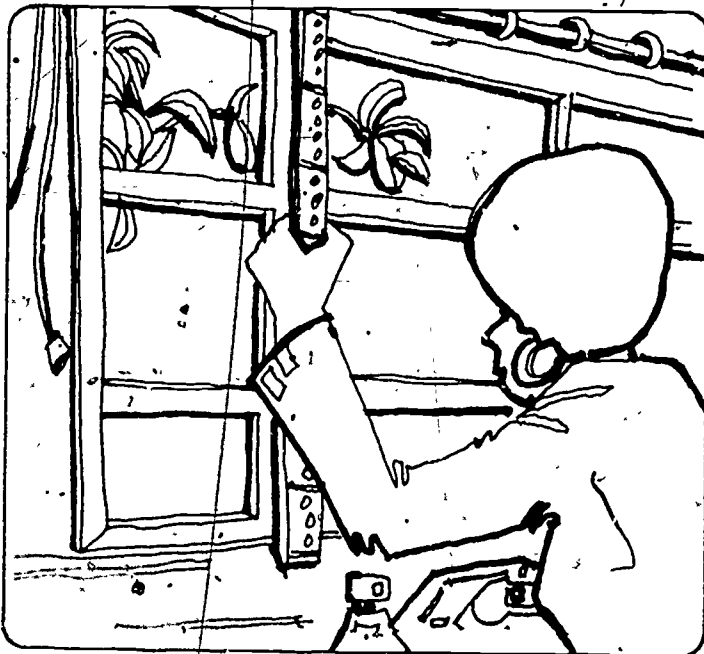


7. Is the car too long? Or is the garage too short?





8. The curtains are too short for the window.



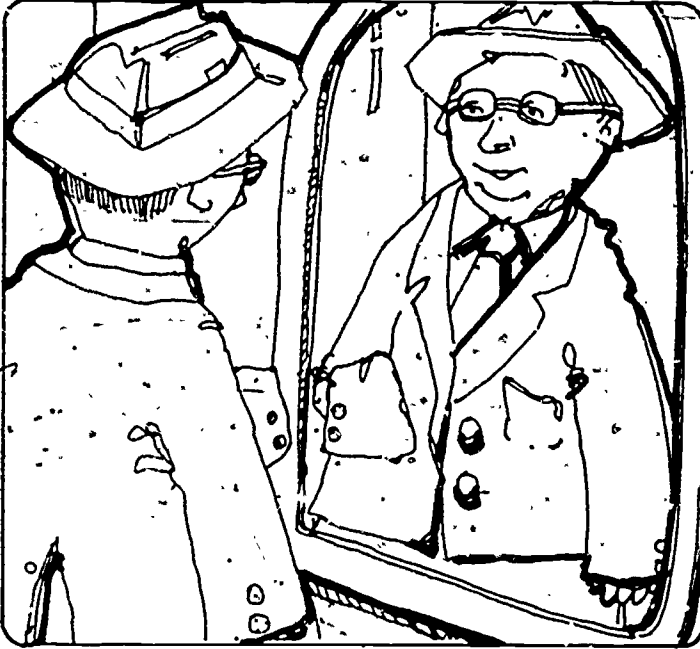
9. When you buy curtains, find the length of the window first.

10. The shirt is too wide across the shoulders.



11. Use a centimetre ruler to find width.



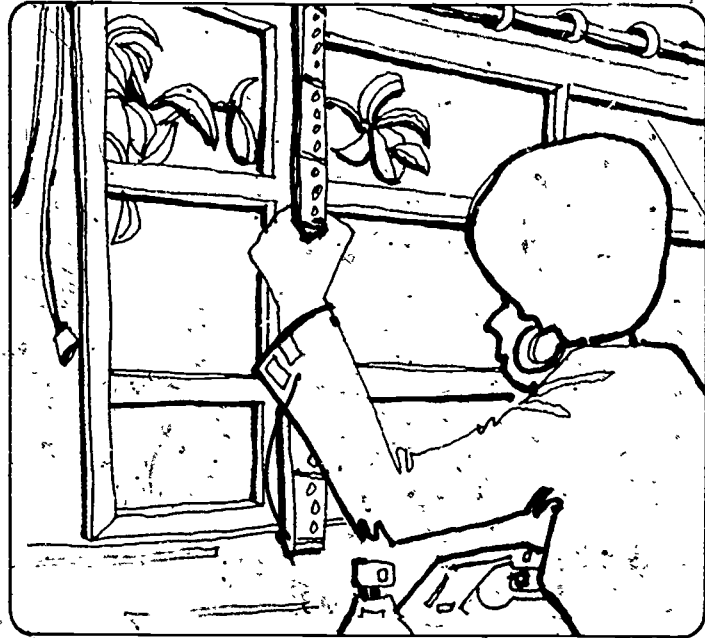


12. The sleeves are too long.

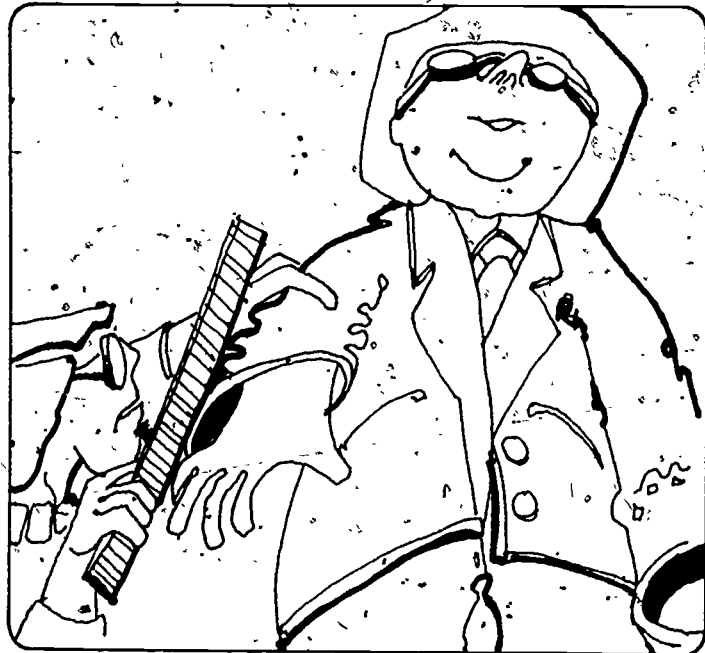


13. Use a centimetre ruler to find the right length.

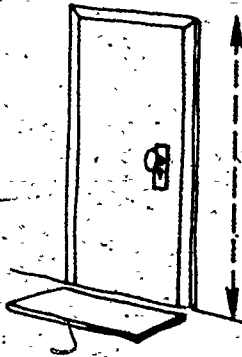
- 14 a. Use a metre stick for large things.
- b. Write the letter m for the word metre.



- 15 a. Use a centimetre ruler for small things:
- b. Write the letters cm for the word centimetre.



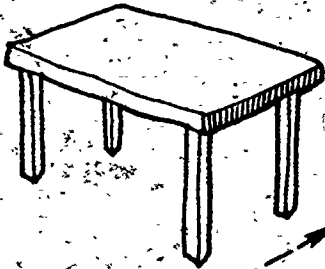
EXERCISE A.1.



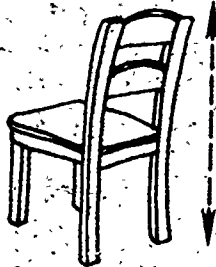
Height _____



Width _____



Width _____

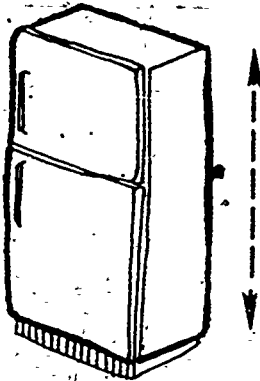


Height _____

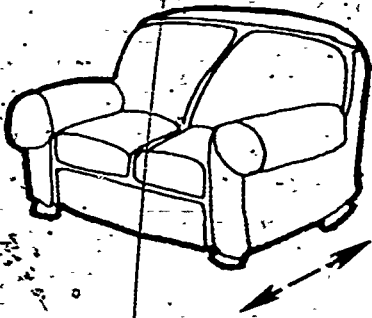
Do more here.



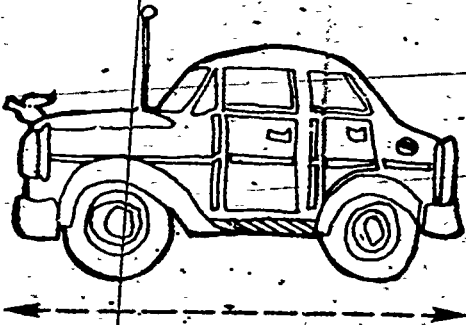
EXERCISE A.3.



Height _____



Width _____



Length _____



Length _____

Do more here.



EXERCISE A.4.

BODY MEASUREMENTS

A Man

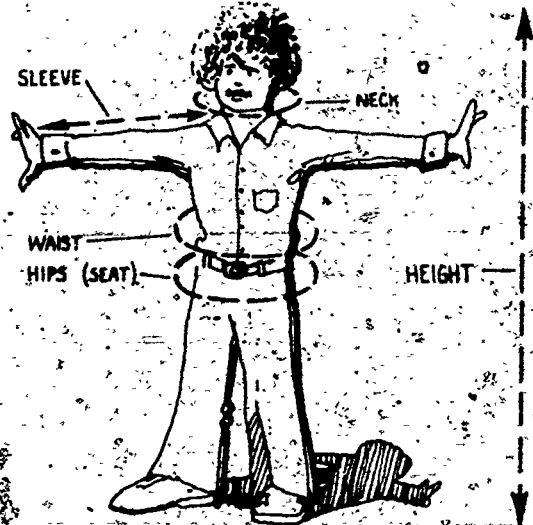
Height _____

Waist _____

Neck _____

Hip (Seat) _____

Sleeve _____



A Woman

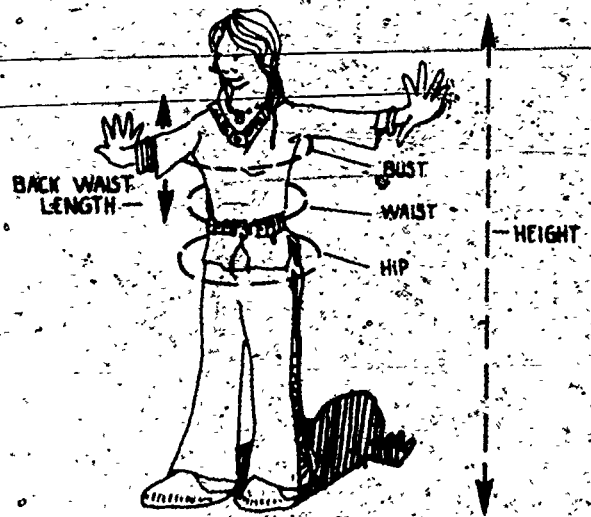
Height _____

Bust _____

Hip _____

Waist _____

Back Waist Length _____



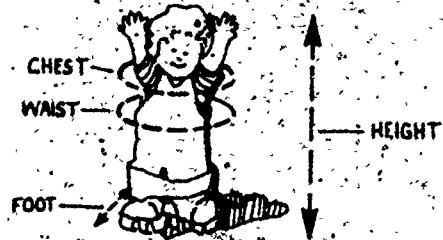
A Small Child

Height _____

Chest _____

Waist _____

Foot _____



Do more here.

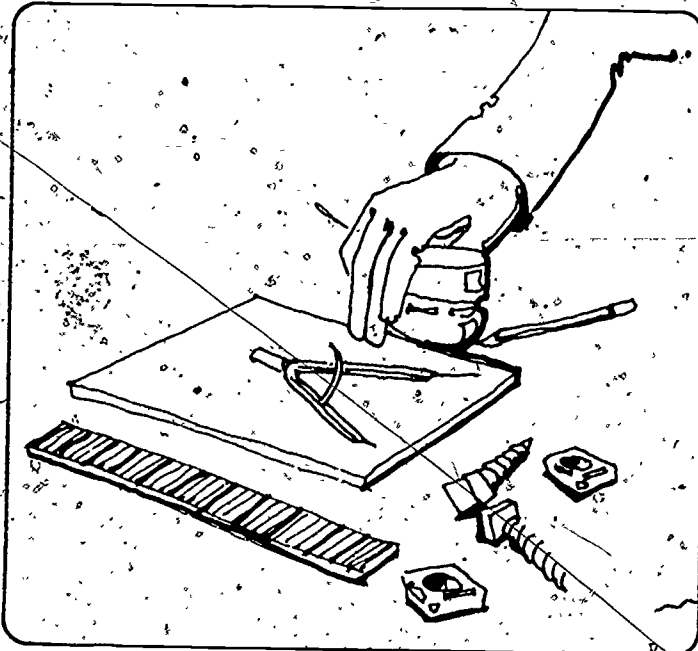


SECTION B

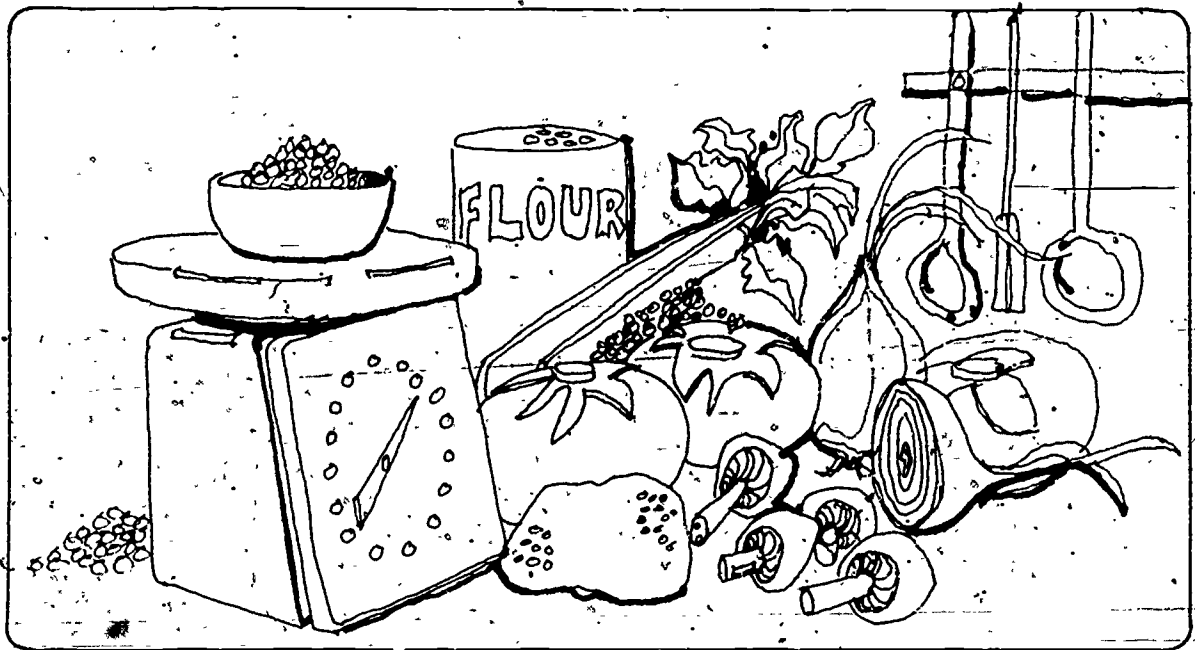




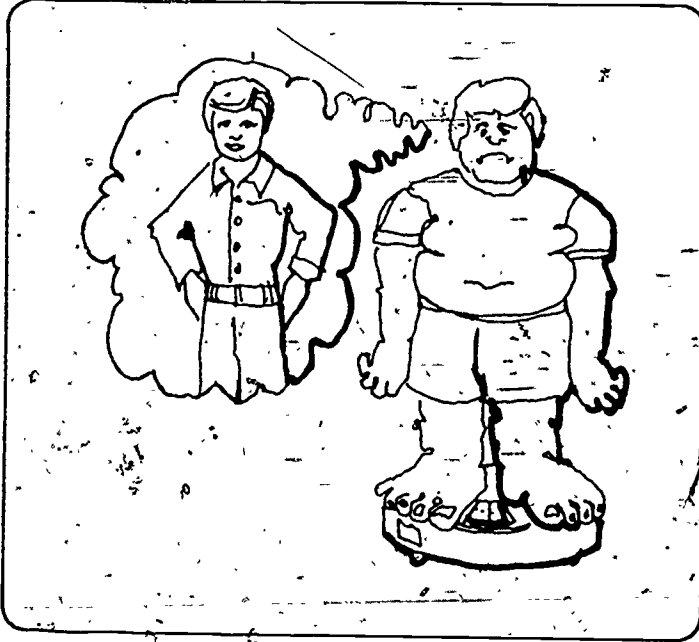
16. Use a metre stick to measure large things.



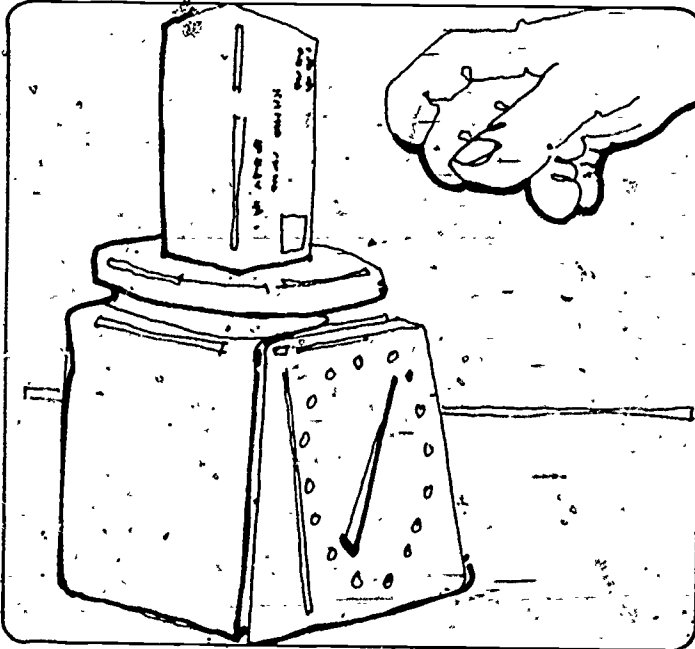
17. Use a centimetre ruler to measure small things.



18. Use a scale to measure weight.



- 19a. Don't laugh.
- b. How much do you weigh?
- c. Use a scale to measure weight.

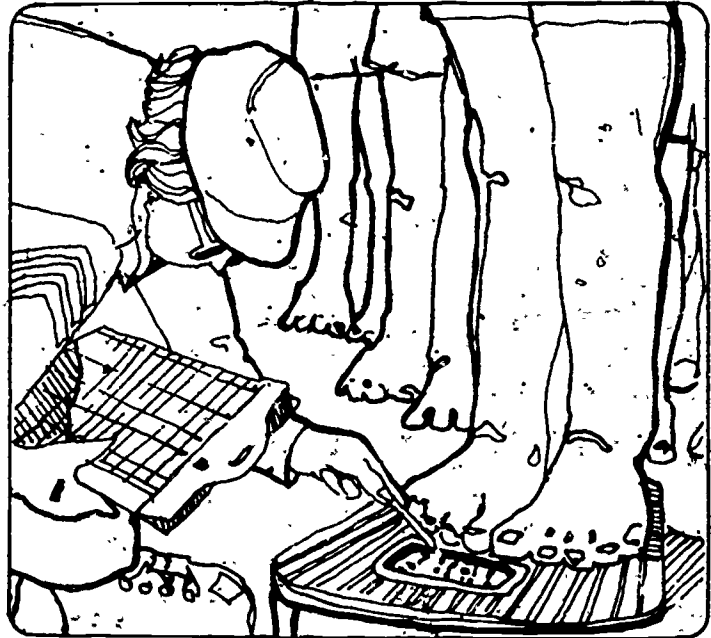


20. Use a scale to find the weight of something.

21a. Measure the weight of heavy things with a kilogram scale.

b. A kilogram scale measures heavy things in kilograms.

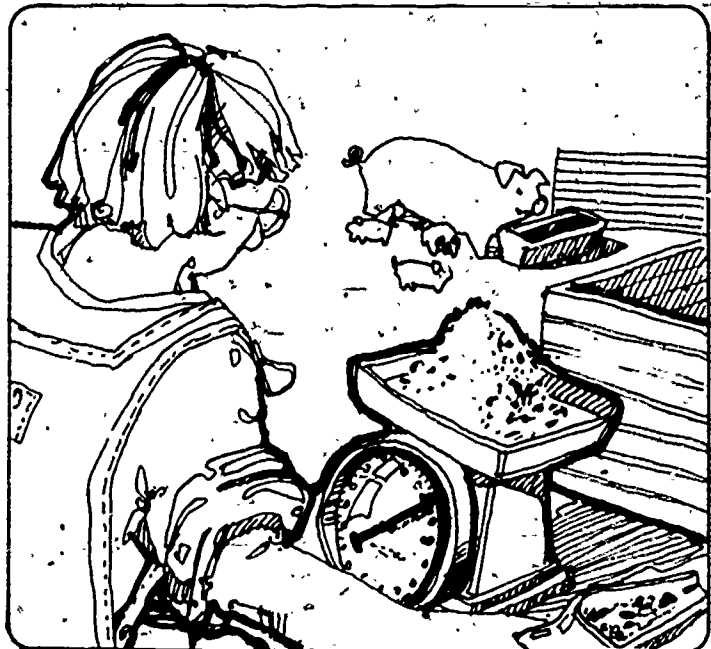
c. Write the letters kg for the word kilogram.



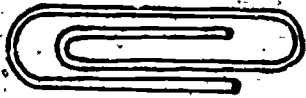
22a. Measure the weight of light things with a gram scale.

b. A gram scale measures light things in grams.

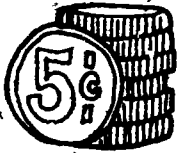
c. Write the letter g for the word gram.



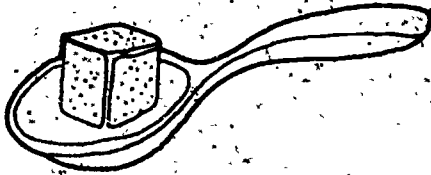
EXERCISE B.1.



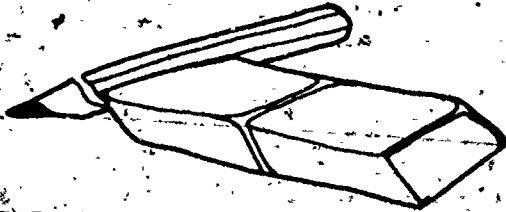
? _____



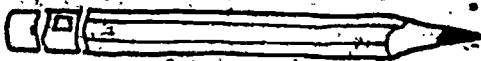
? _____



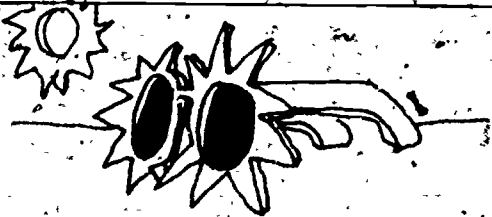
? _____



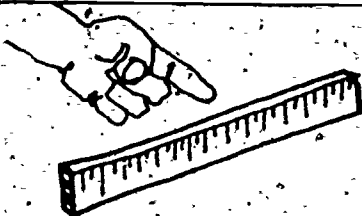
? _____



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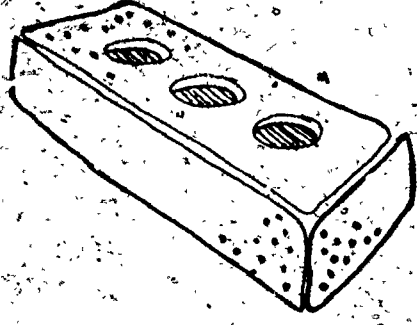


? _____



Do more here.

EXERCISE B.2.



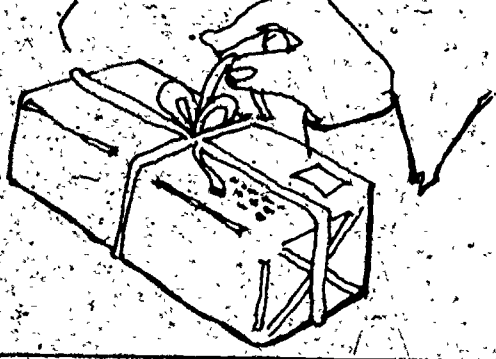
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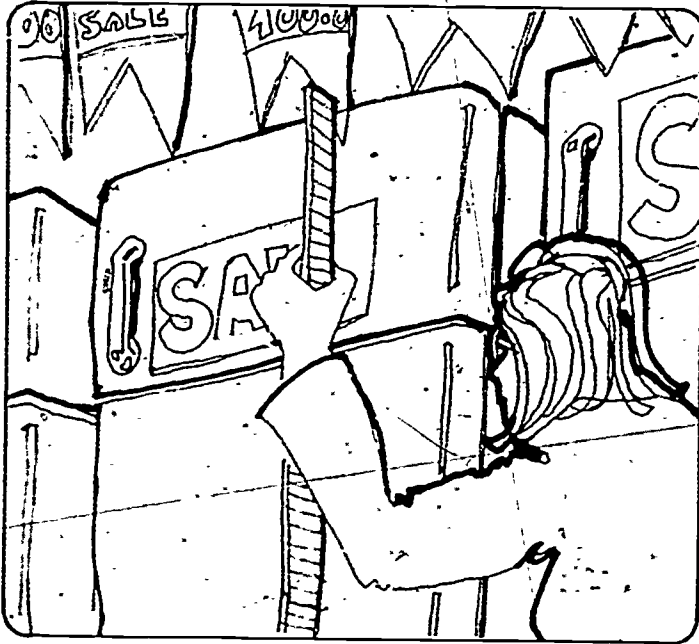
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Do more here.



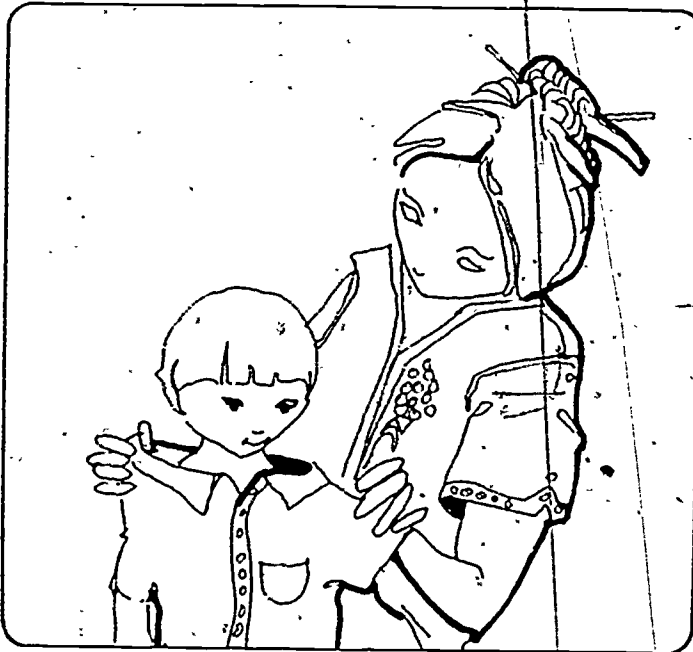
SECTION C





23a. Measure big things with a metre stick.

b. Write the letter m for the word metre.



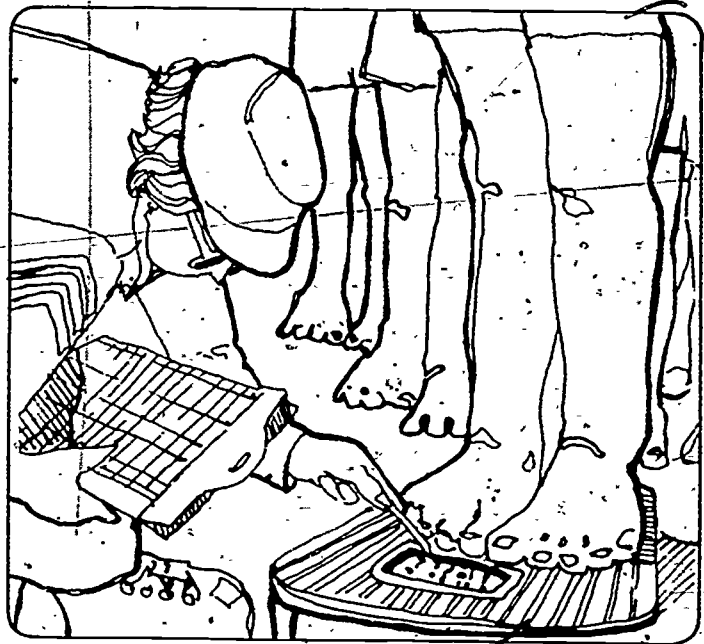
24a. Measure small things with a centimetre ruler.

Write the letters cm for the word centimetre.

25a. Measure the weight of heavy things in kilograms.

b. Use a kilogram scale to measure heavy things.

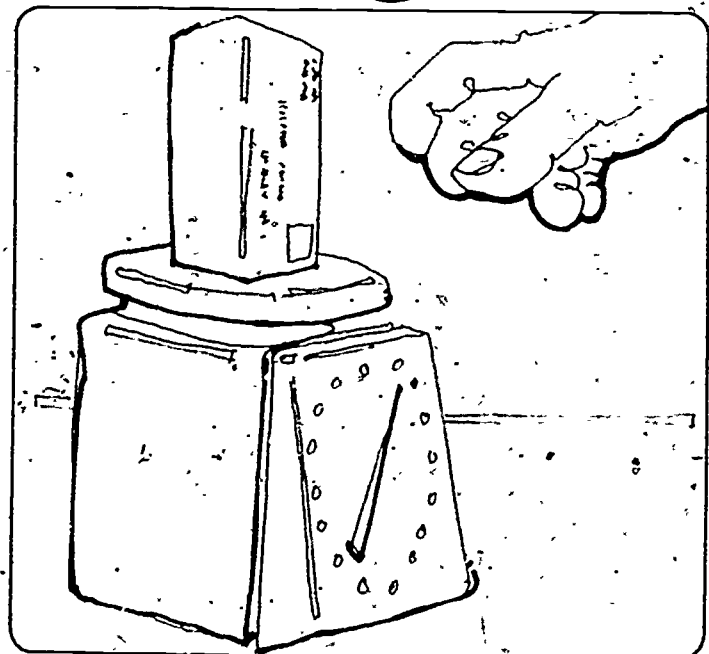
c. Write the letters kg for the word kilogram.



26a. Measure the weight of light things in grams.

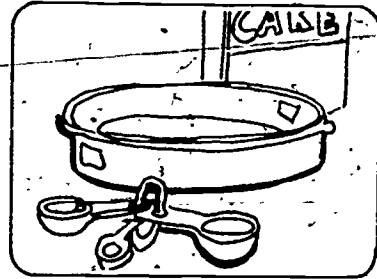
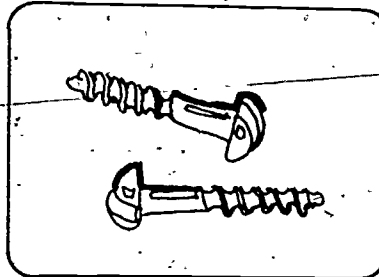
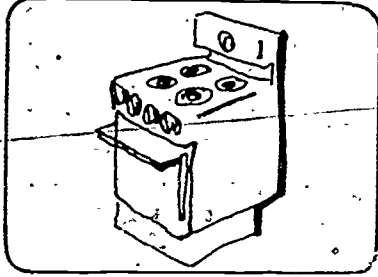
b. Use a gram scale to measure light things.

c. Write the letter g for the word gram.

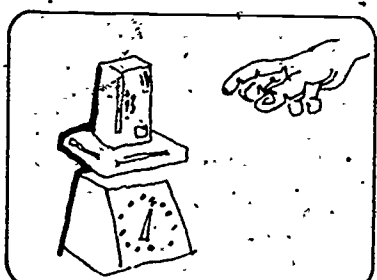
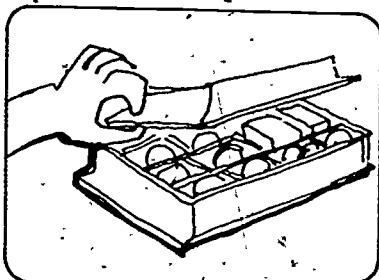


EXERCISE C.1.

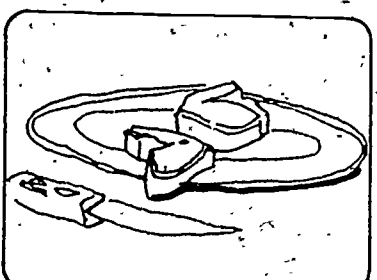
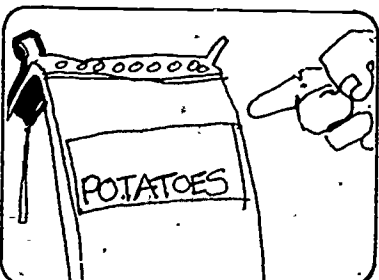
1



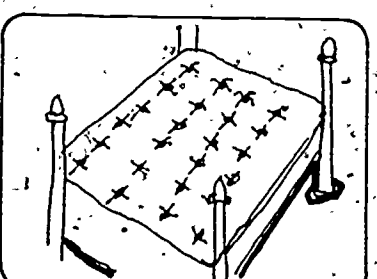
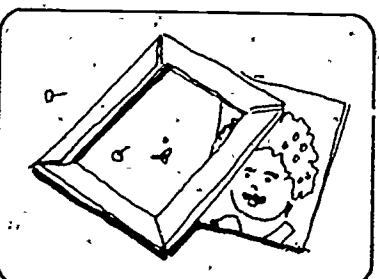
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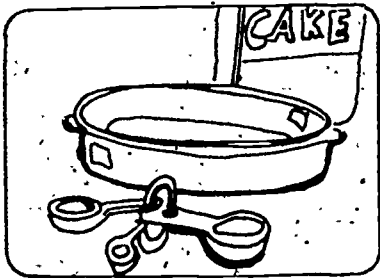
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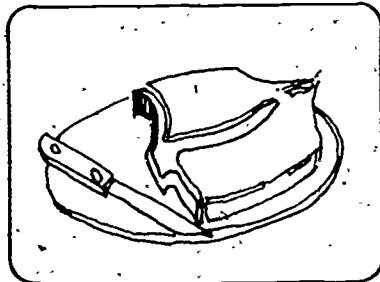
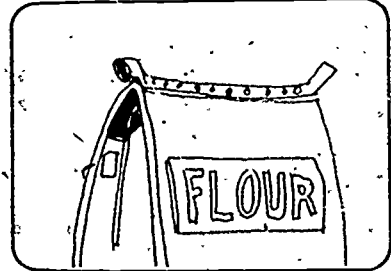
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EXERCISE C.2.



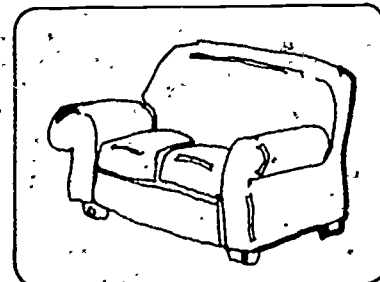
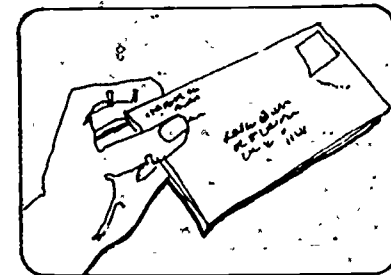
metre



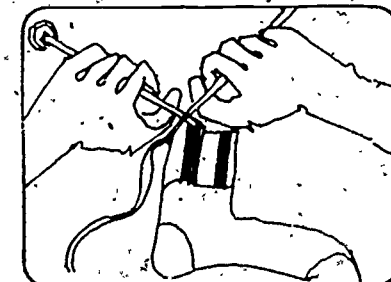
centimetre



kilogram



gram



EXERCISE C.3.

cm

gram

g

centimetre

m

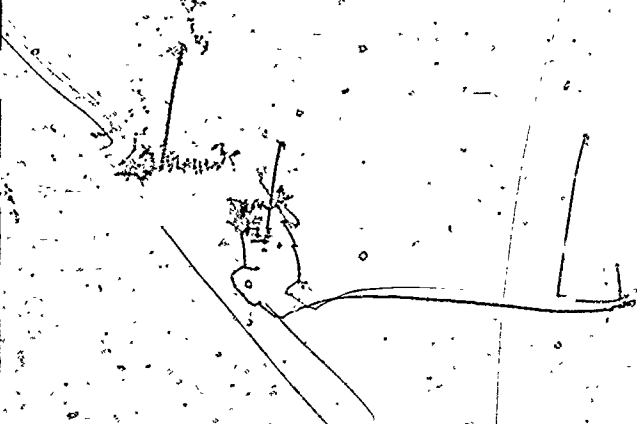
kilogram

kg

metre



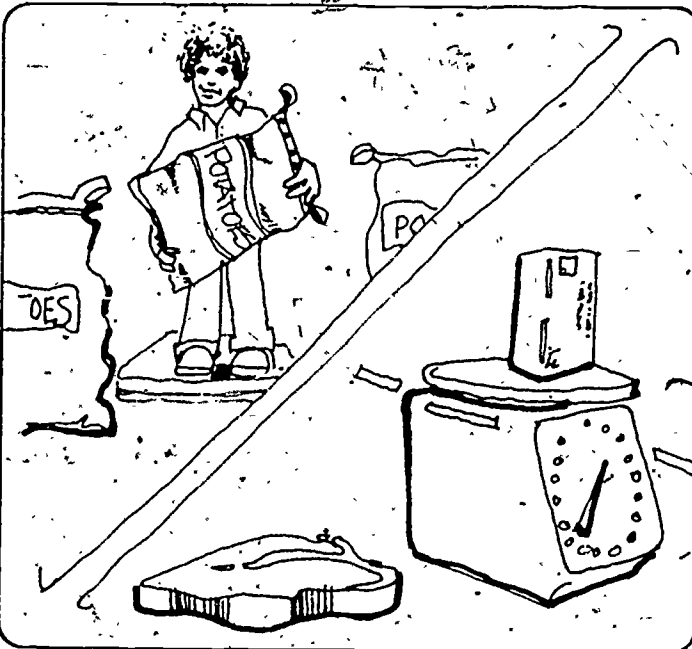
SECTION D





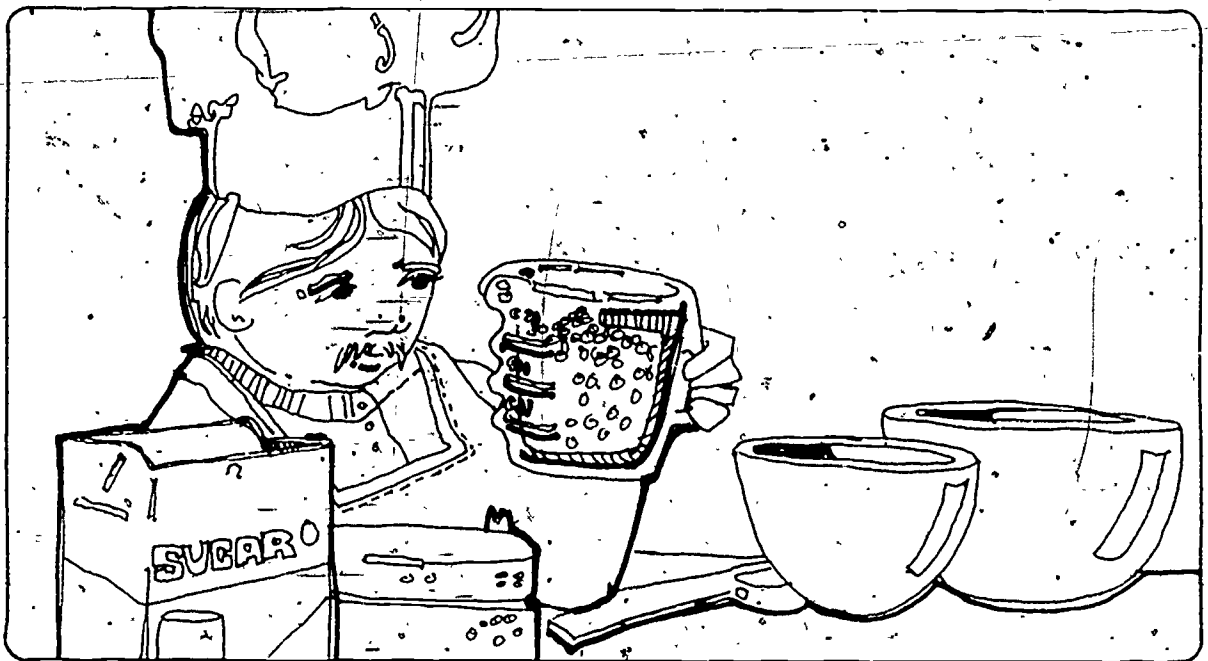
27a. A metre stick is used to measure large things.

b. Use a centimetre ruler to measure small things:



28a. A kilogram scale is used to weigh heavy things.

b. Use a gram scale to weigh light things.



29. Use a litre cup to measure sugar.



30. Use a litre to measure large amounts of liquid.



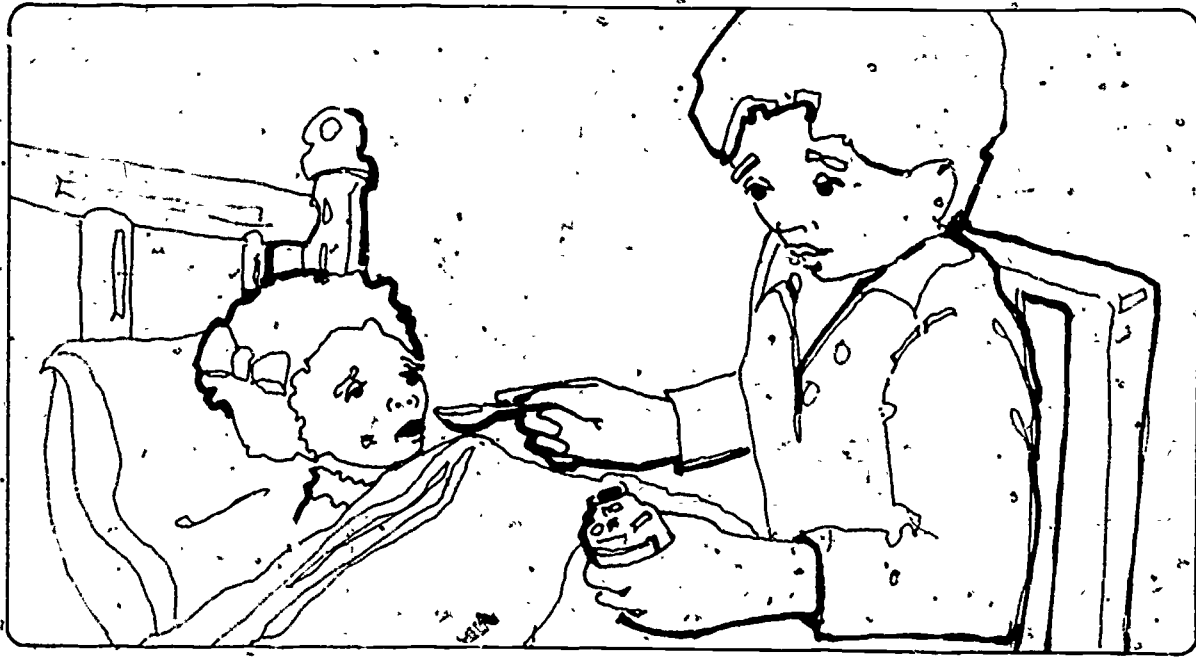
31. Large amounts of liquid are measured in litres.

32. This is too much red pepper.



33. Use a 2 millilitre spoon to measure small amounts.





34. You can also use a 5 millilitre spoon to measure small amounts.

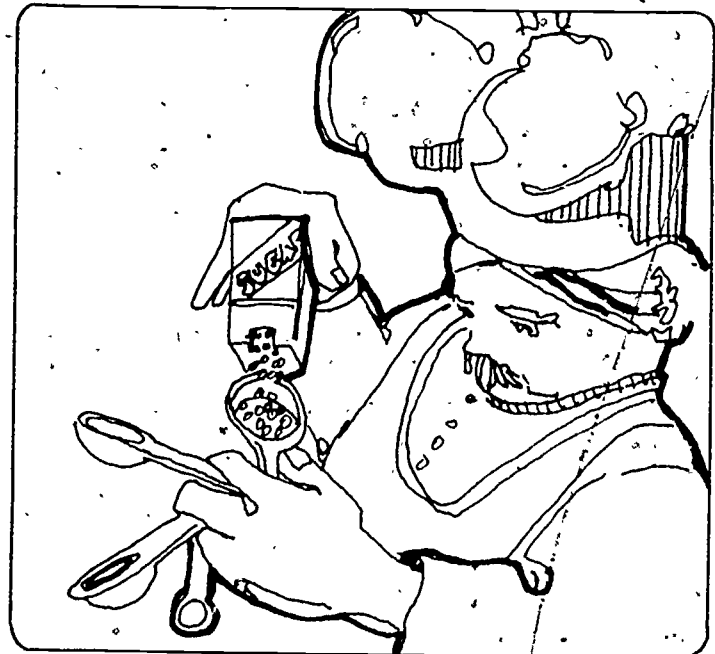
35a. Use a litre cup
to measure
large amounts.

b. Write the letter l
for the word
litre.

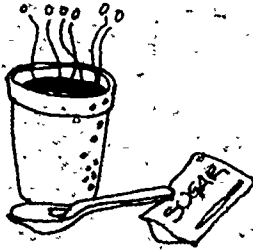


36a. Use a millilitre spoon
to measure
small amounts.

b. Write the letters ml
for the word
millilitre.



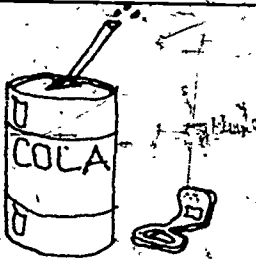
EXERCISE D.1.



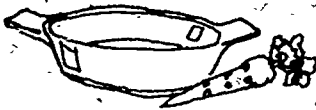
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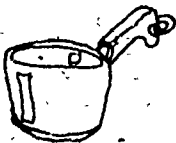
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Do more here.



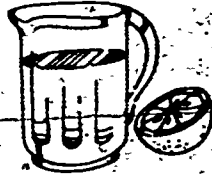
EXERCISE D.2.

Mellispread for Bread

60 ml peanut butter



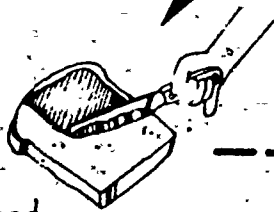
30 ml orange juice



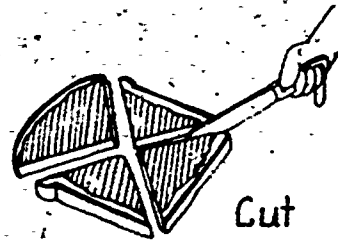
Chop 30 ml raisins



Mix in a bowl



Spread

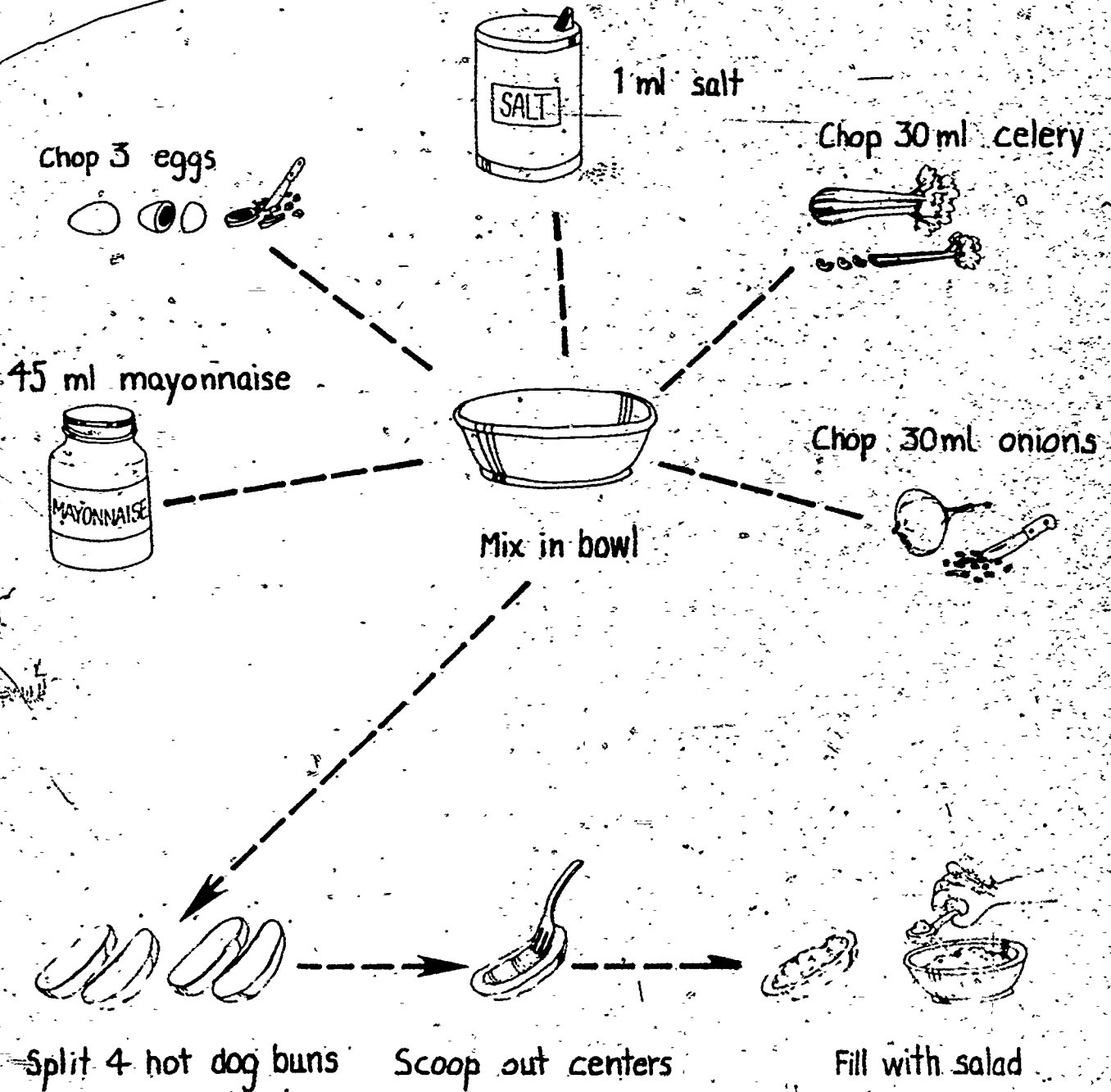


Cut

EXERCISE D.3

Metric Egg Salad

Makes 8 Sandwiches

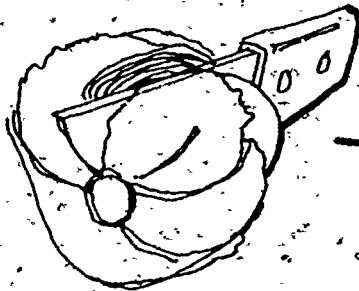


EXERCISE D.4.

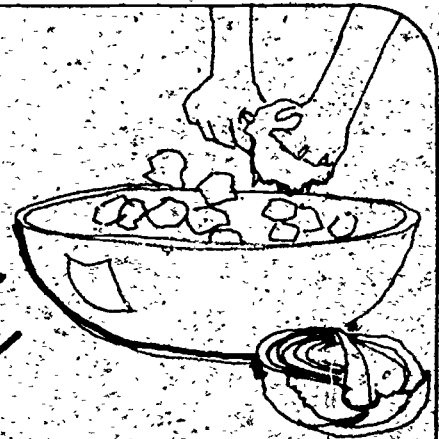
Metric Toss-Up

SERVES 4

Wash



1/2 head lettuce



60 ml radishes

60 ml carrots

120 ml celery

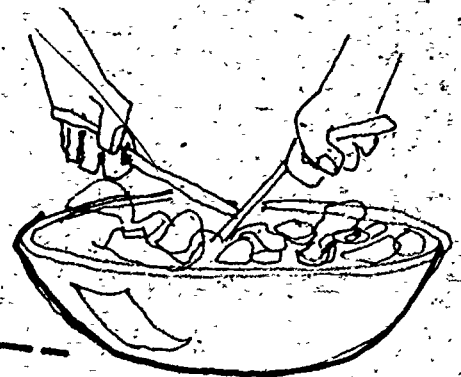
Slice

Add in a bowl

Add



60 ml salad dressing

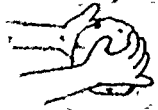
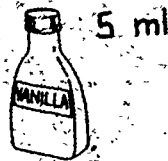
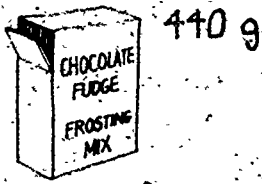


Mix

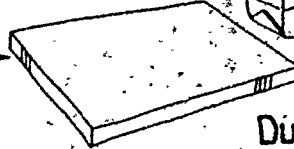
EXERCISE D.5.

Fudge Metribites

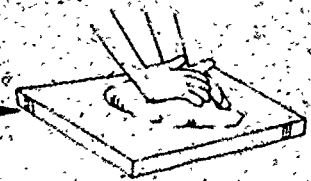
Makes 48 Bites



Form ball



Dust



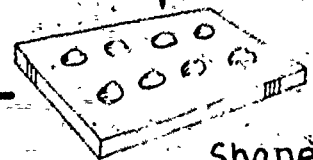
Knead 20 times



Roll



Chop nuts



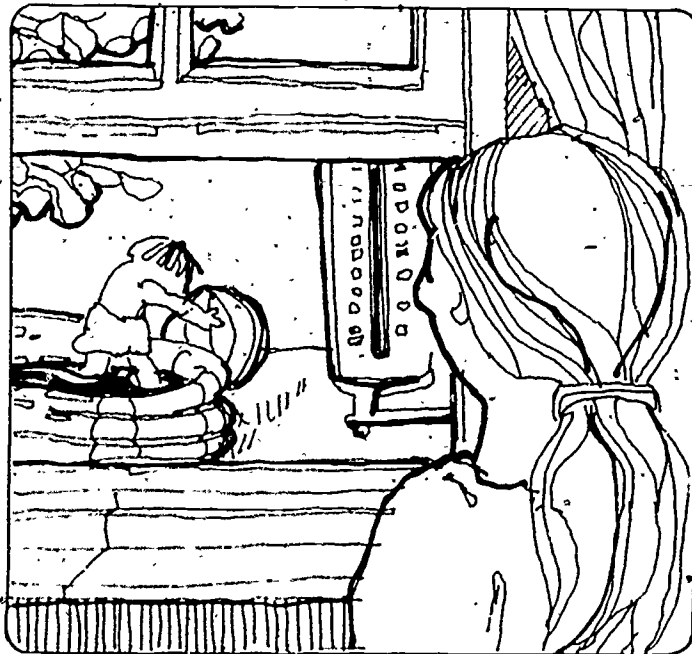
Shape

SECTION E





37. A Celsius thermometer measures how cold it is.



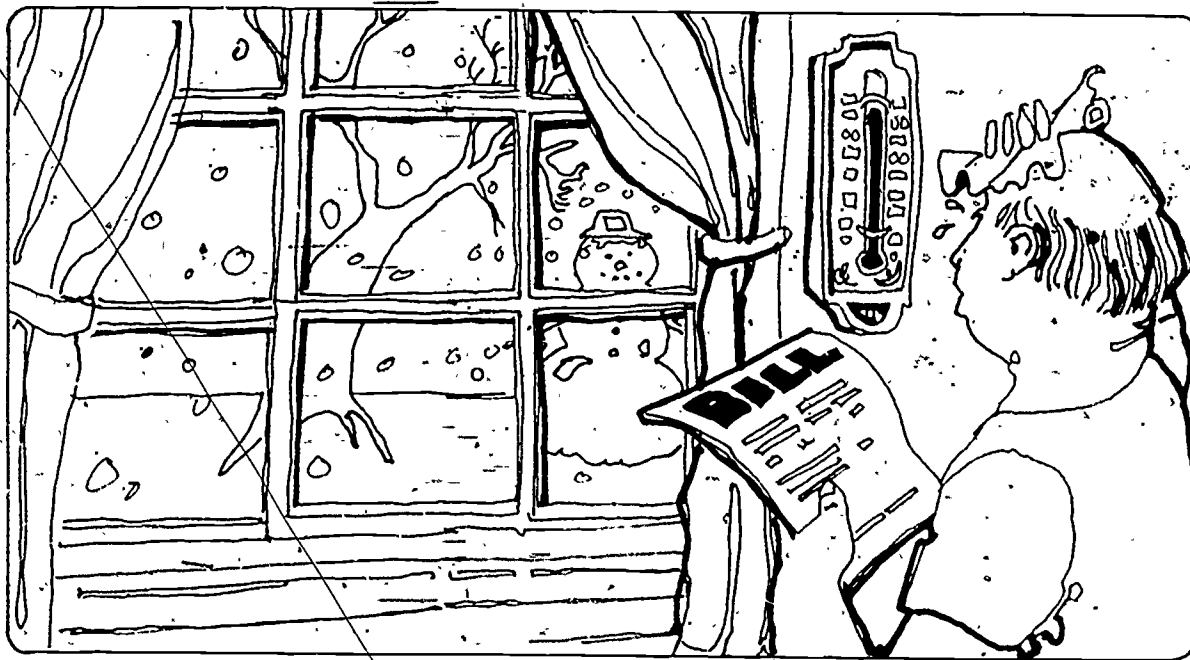
38. Use a Celsius thermometer to measure how hot it is.

39. A Celsius thermometer tells you if someone has a fever.



40. A Celsius thermometer tells you if the oven is heating properly.





- 41a. Use a Celsius thermometer to measure how hot or cold it is.
- b. Write the letter C for the word Celsius.
- c. A thermometer measures in degrees how hot or cold something is.

42. We use a Celsius thermometer to check someone's temperature.



- 43a. Measure how hot or cold the weather is with a Celsius thermometer.

b. Measure temperature in degrees Celsius.

c. Write the small circle $^{\circ}$ and the letter C ($^{\circ}\text{C}$) for degree Celsius.



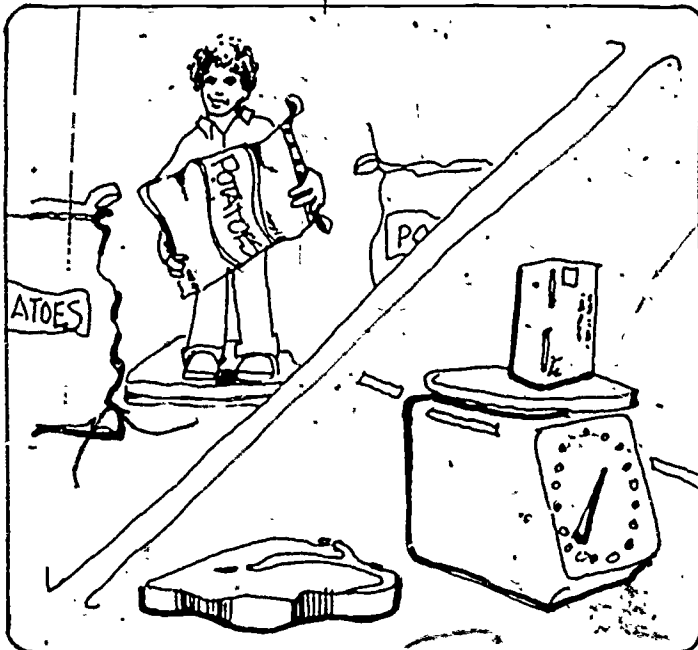
SECTION F





44a. A metre stick is used to measure large things.

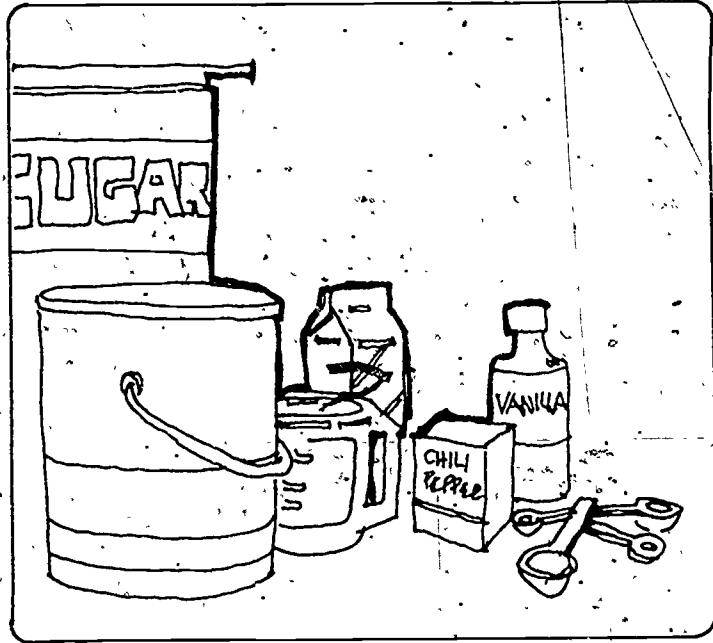
b. A centimetre ruler is used to measure small things.



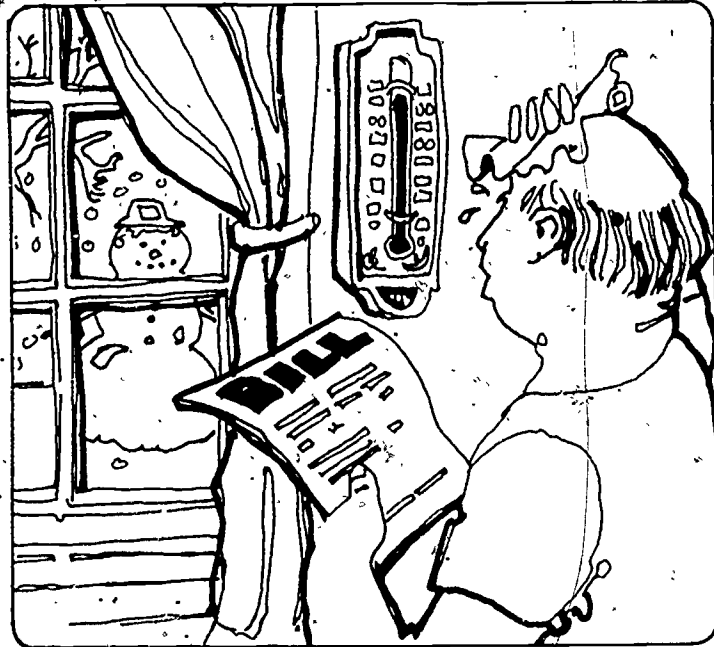
45a. A kilogram scale is used to weigh heavy things.

b. Use a gram scale to weigh light things.

- 46a. A litre cup is used to measure large amounts.
- b. Use millilitre spoons to measure small amounts.

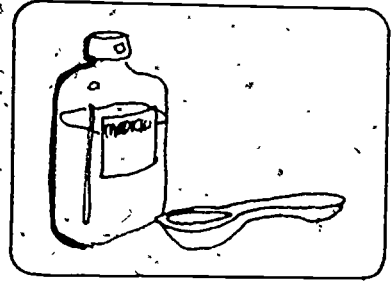
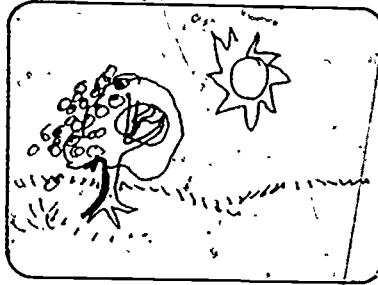
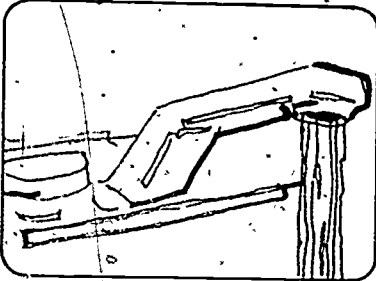


47. Use a Celsius thermometer to measure how hot or cold it is.

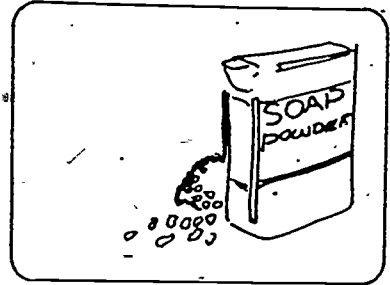
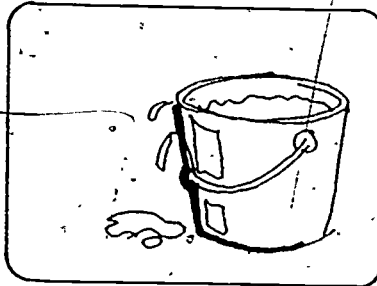
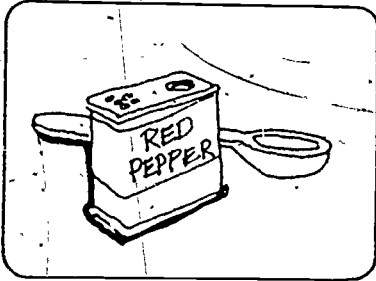


EXERCISE F.1.

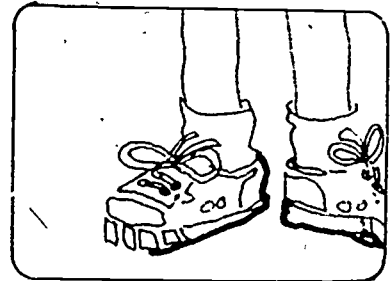
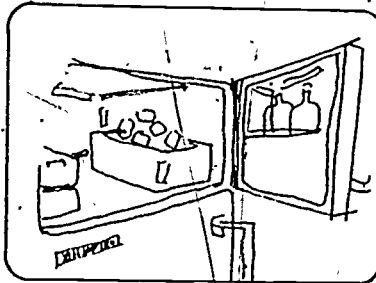
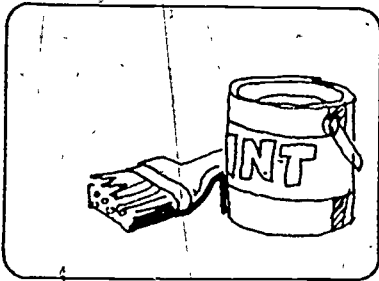
1



2



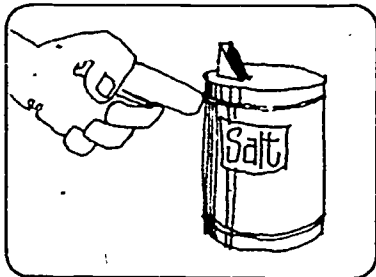
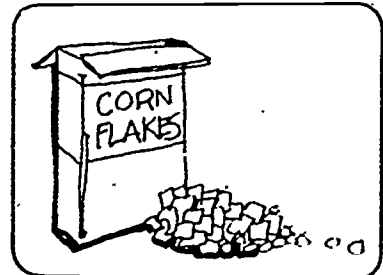
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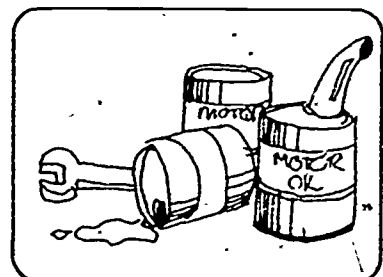
EXERCISE 2.



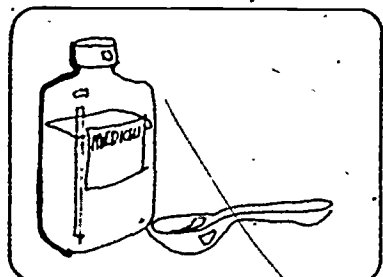
Celsius
thermometer



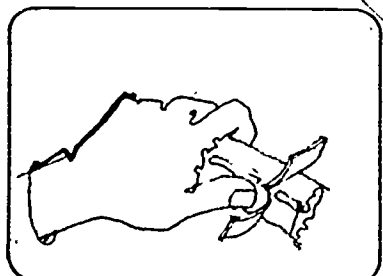
5 millilitre
spoon



litre measure



grams



EXERCISE F.3.

millilitre

°C

litre

kg

kilogram

ml

degree Celsius

g

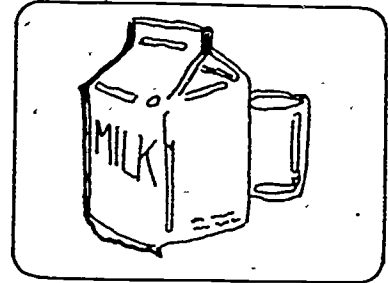
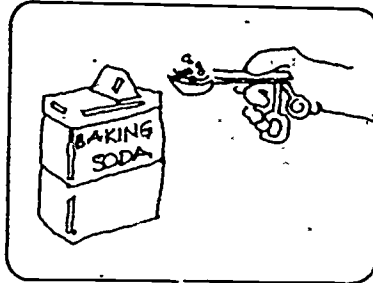
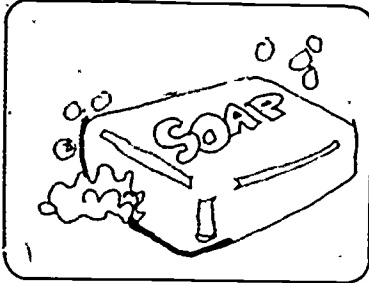
gram

l

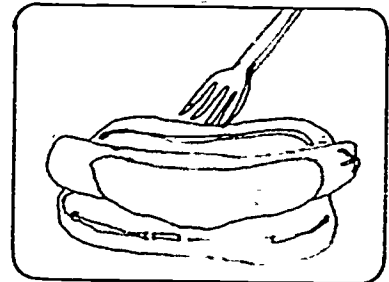
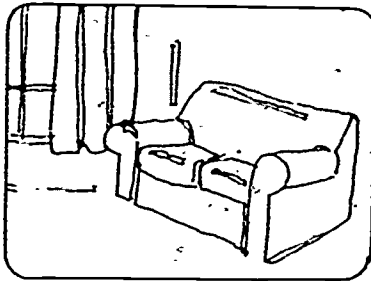


EXERCISE F.4.

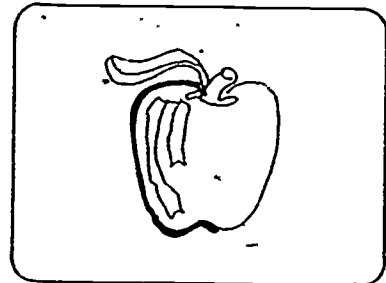
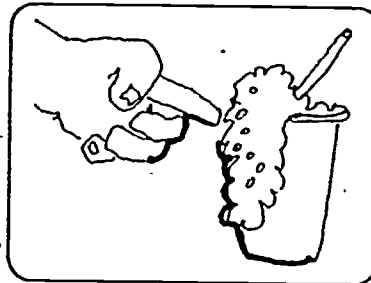
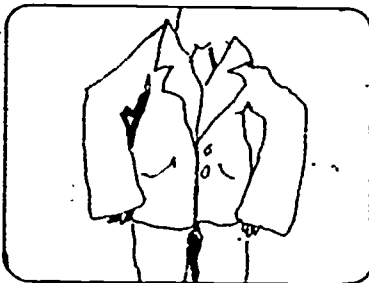
1



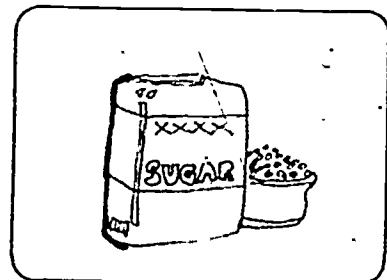
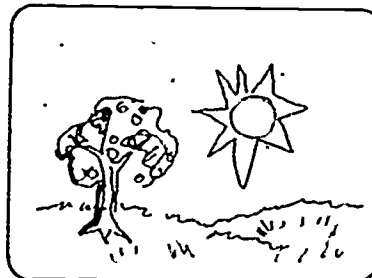
2



3

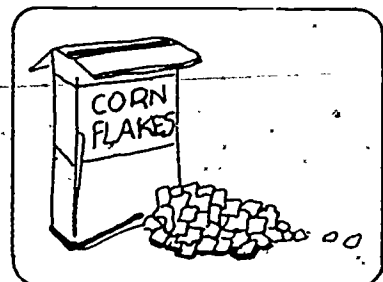
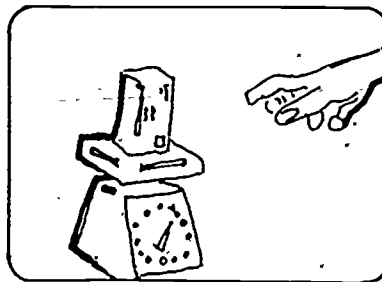
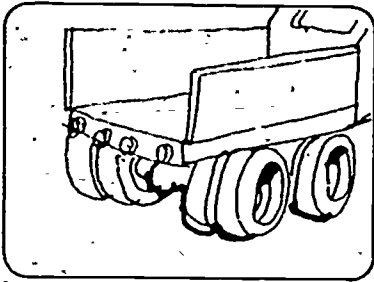


4

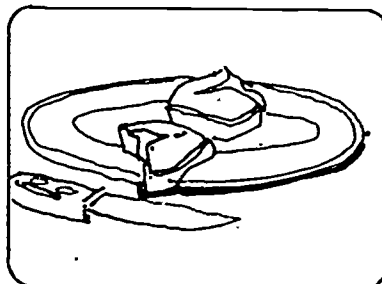
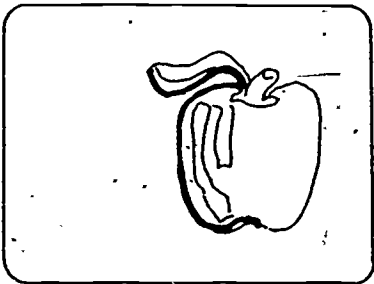


EXERCISE F.5.

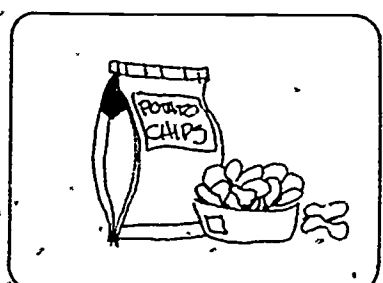
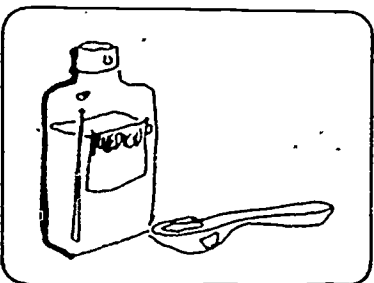
1



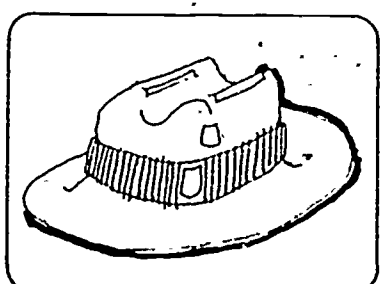
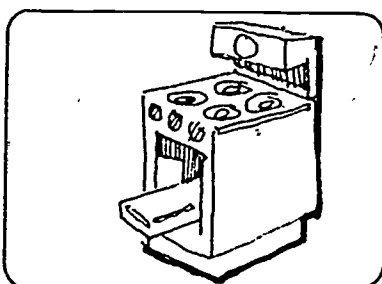
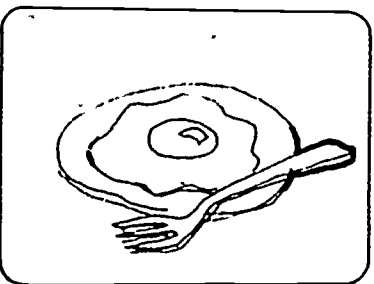
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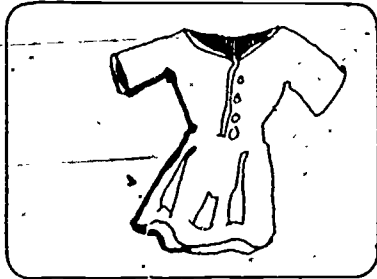
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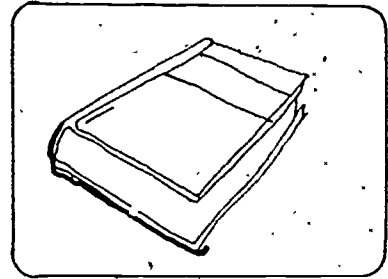
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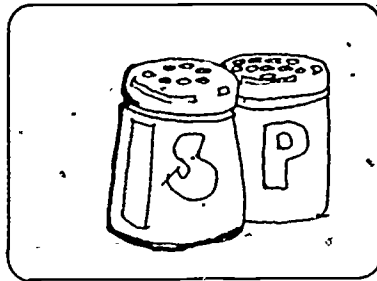
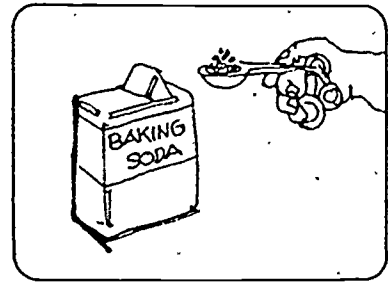
EXERCISE F.6.



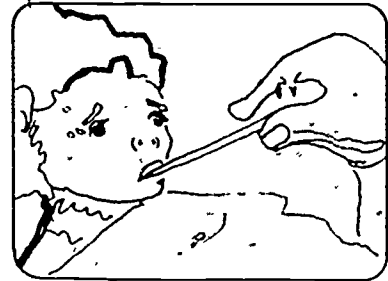
millilitres



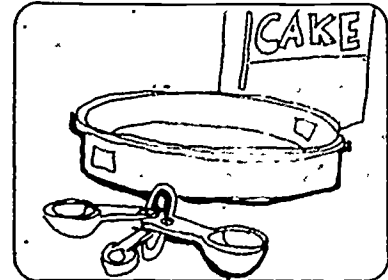
centimetres



degree Celsius



kilogram scale



EXERCISE F.7.

gram

ml

metre

cm

centimetre

°C

degree Celsius

l

kilogram

kg

millilitre

g

litre

m