

# SMILE WORKCARDS

## Measurement Pack One

### Contents

	Title	Card Number
1	Using a Ruler	214
2	Snails' Trails	2248
3	Centimetres	1735
4	Time Line	1349
5	Time Bingo	899
6	Zig Zags w/s	1768
9	How Long?	855
10	With a ruler	2315
11	Jumping	2283
12	Metre and Centimetre	323
13	Matching Weights w/s	2391
14	About How Long? w/s	1907
15	24 Hour Bingo	900
16	Look and Guess	1348
17	Measuring Lengths	294
18	Sunita's Day	597
19	How Heavy?	872

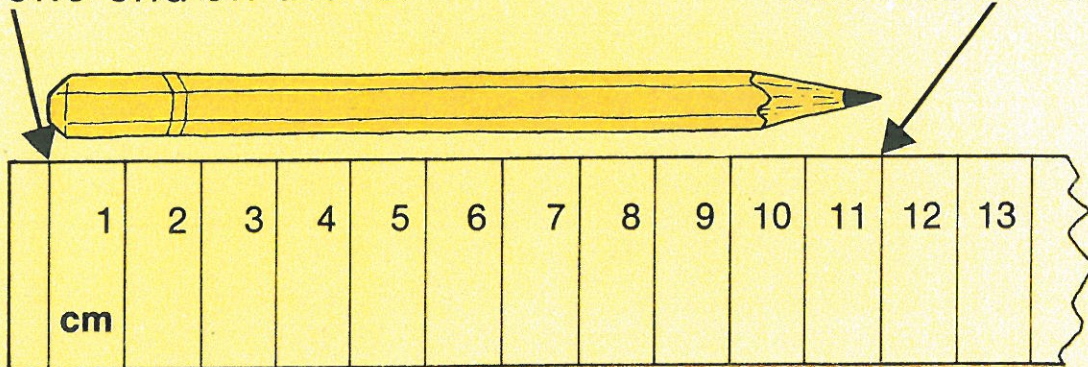


# Using a ruler

Measure your own pencil.

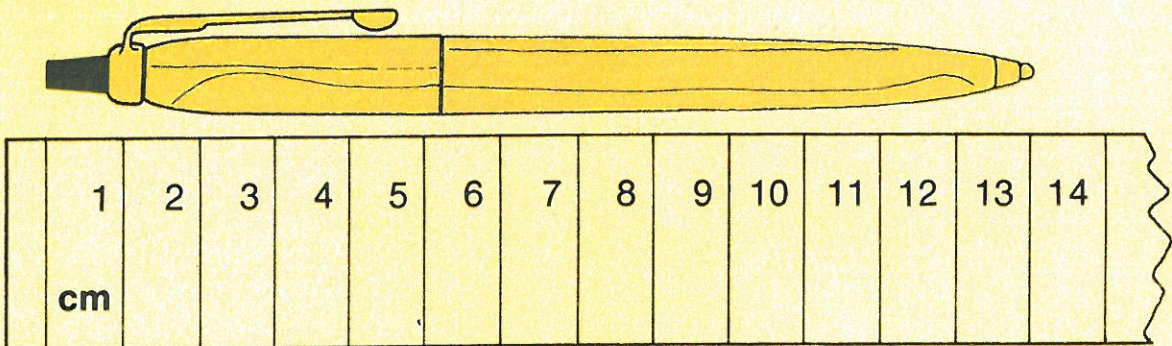
Put one end on the '0'

Look at the other end

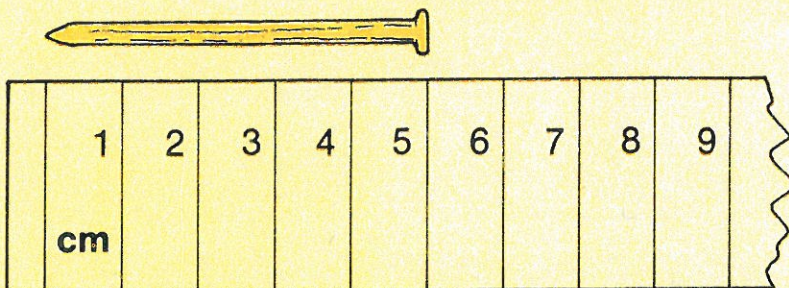


This pencil is 11 centimetres (11 cm) long.

1) How long is this biro?



2) How long is this nail?



3) How long is this match? 

4) Measure the top of this card.

How long is it?

5) How long is the side of this card?

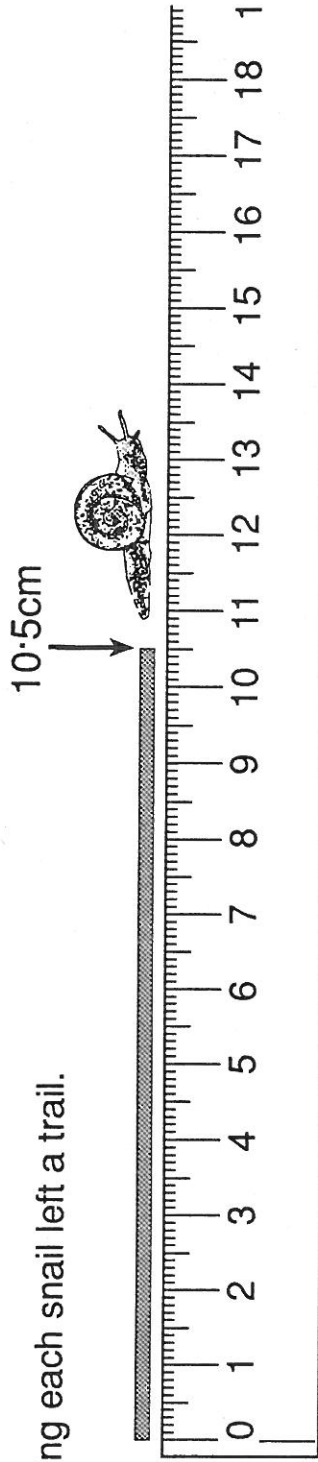
6) Measure 5 more things.



# Snails' Trails



It rained over night and in the morning each snail left a trail.

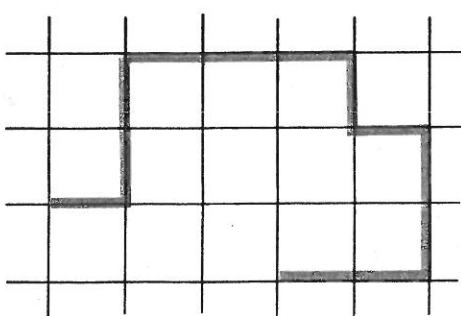
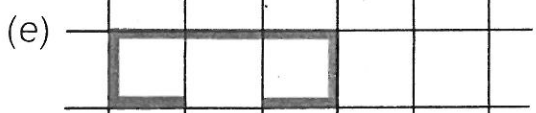
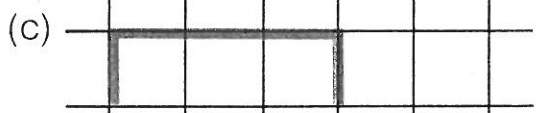
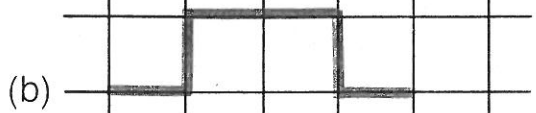
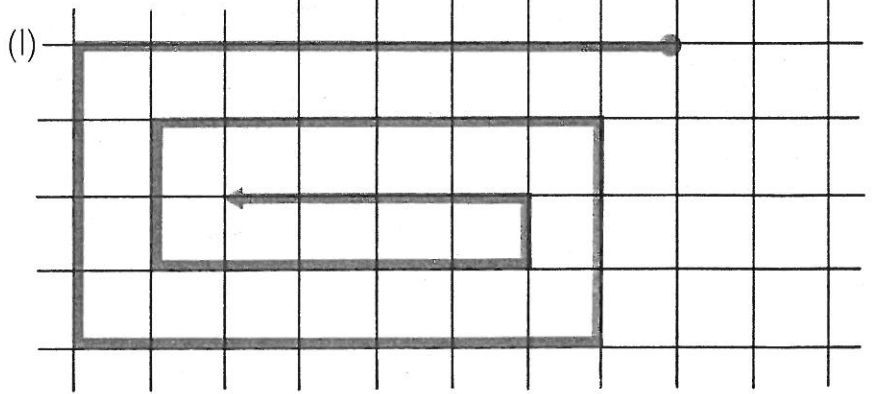
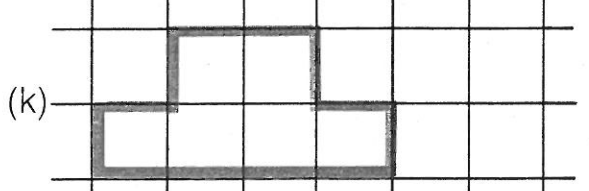
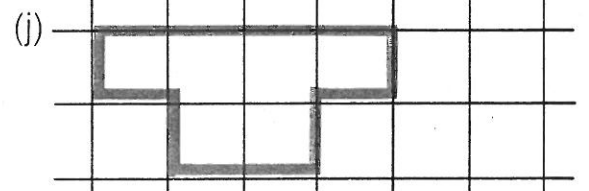
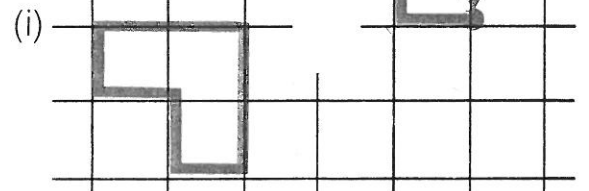
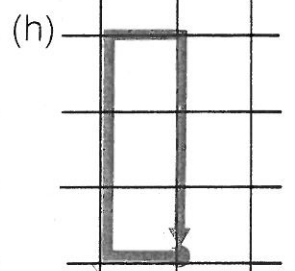
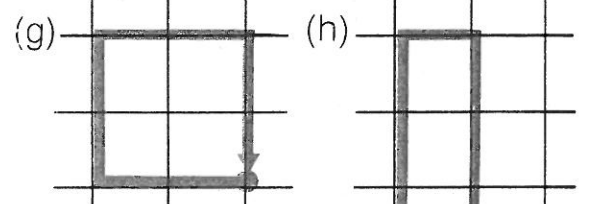
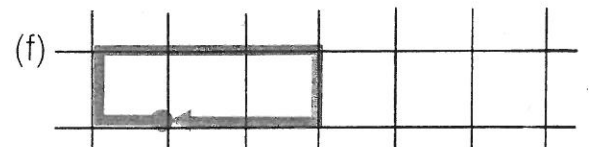
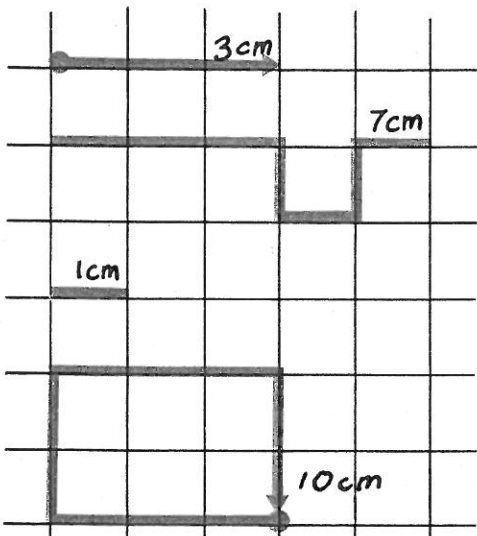


Measure the length of each trail in centimetres (cm).

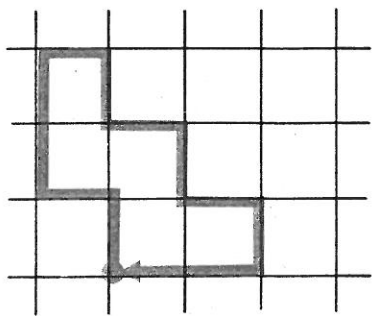
- 1) A long, thin, shaded rectangular trail.
- 2) A long, thin, shaded rectangular trail with a snail illustration at the top, facing downwards.
- 3) A short, thin, shaded rectangular trail with a snail illustration at the top, facing downwards.
- 4) A medium-length, shaded rectangular trail with a snail illustration at the top, facing downwards.
- 5) A short, thin, shaded rectangular trail with a snail illustration at the top, facing downwards.
- 6) A long, thin, shaded rectangular trail.
- 7) A medium-length, shaded rectangular trail with a snail illustration at the top, facing downwards.
- 8) A short, thin, shaded rectangular trail with a snail illustration at the top, facing downwards.

# Centimetres

1. How long are these lines?



This line is 12cm ... so is this one.



2. Draw 5 more lines which are 12cm.



# Time Line

1. When were you born?
2. How old will you be in 1990?
3. When will you leave school?
4. When did you start school?
5. When did you start at this school?

6. Draw a time line in your book.  
Put these events on the time line  
(the first one is done for you):

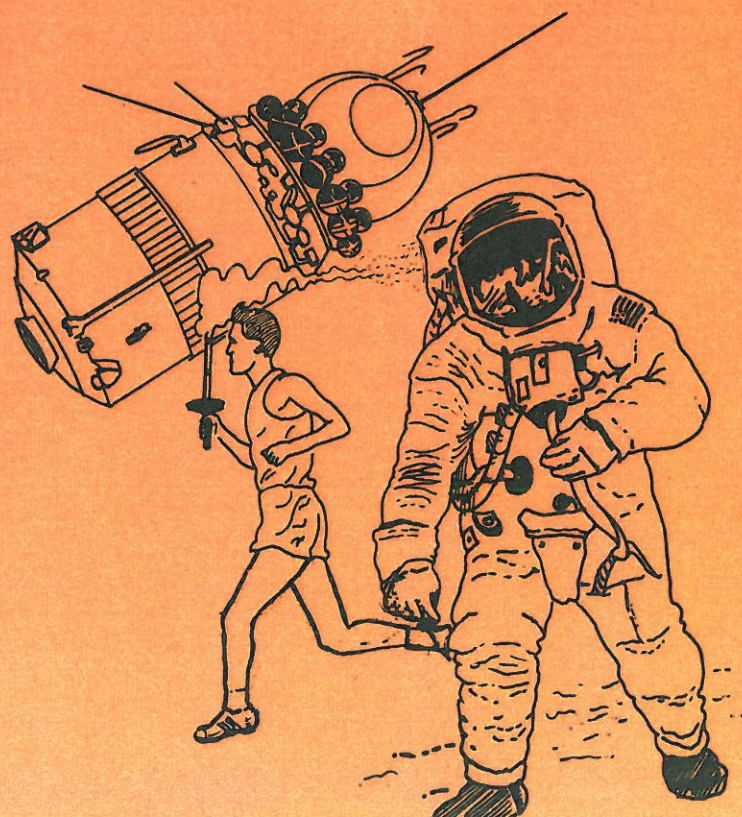
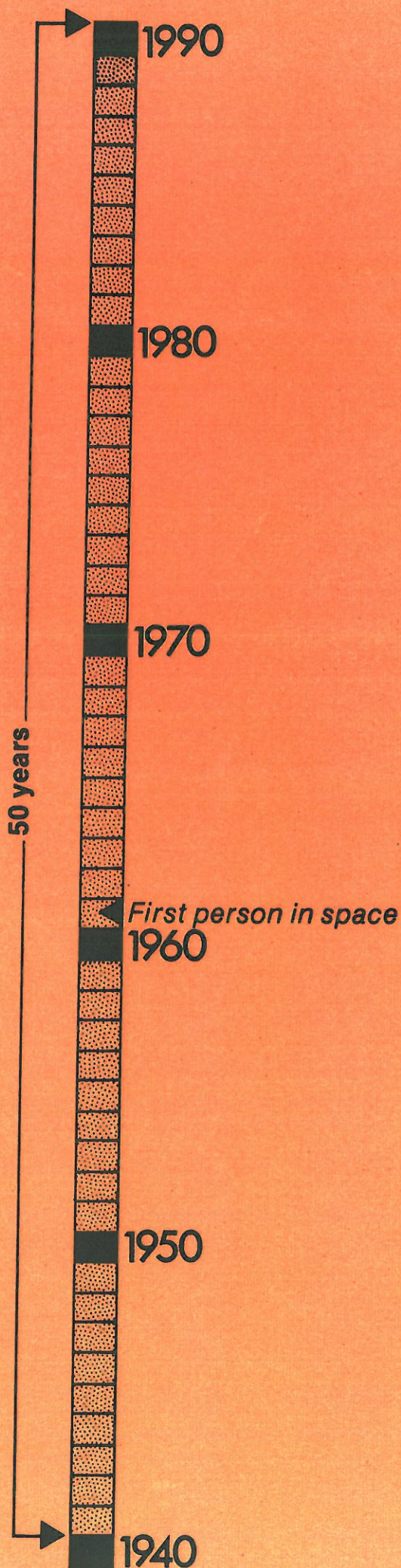
*First person in space 1961*

*First person on the moon 1969*

*Olympic Games in England 1948*

7. Put your personal events on the time line.
8. Find out when other important events happened.  
Put them on the time line.

50 years

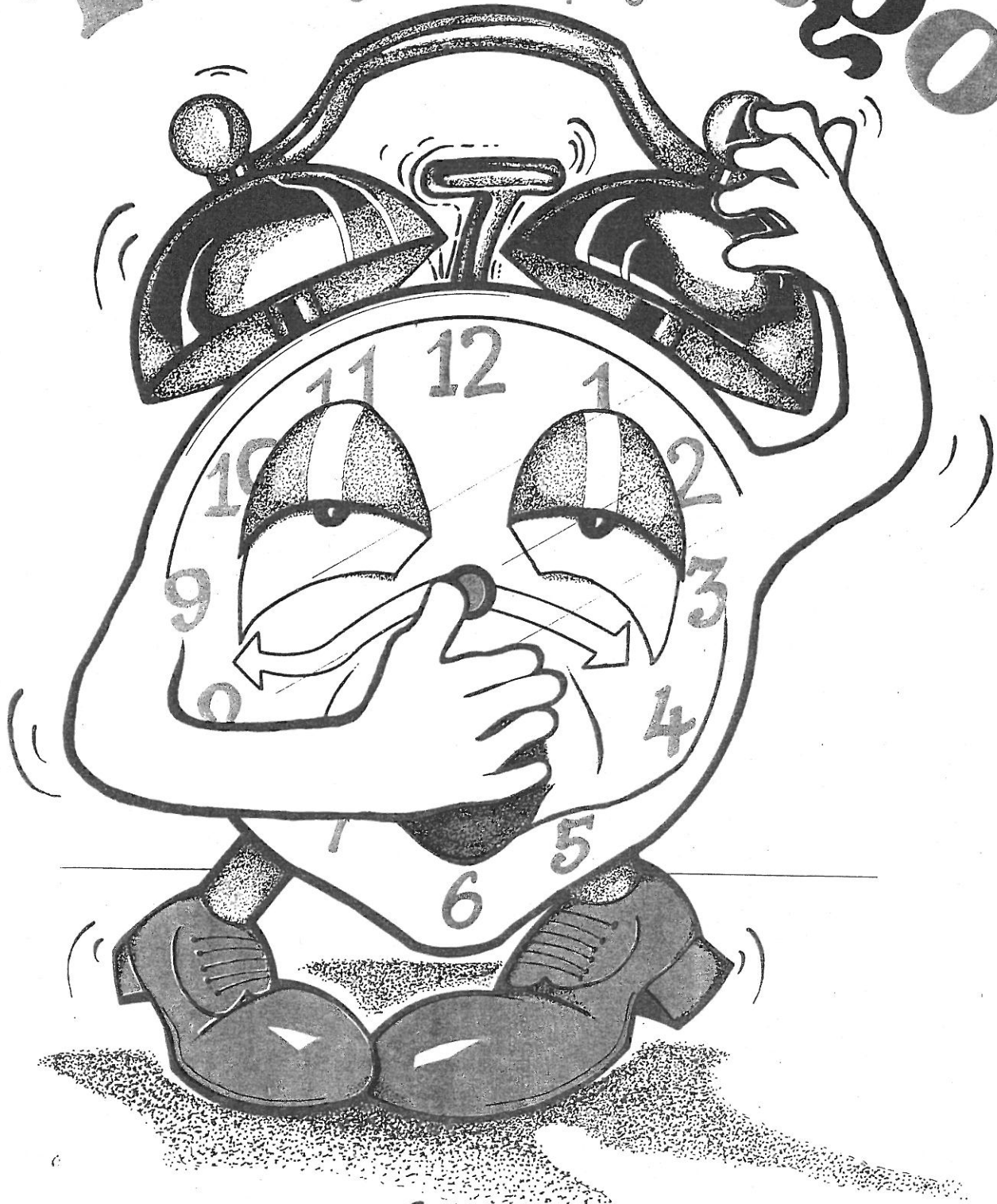




Smile 0899

# Time Bingo

A game for 4 players



## Contents

Time Bingo Rules 0899A

A Pack of Time Bingo Playing Cards

4 Time Binao Cards



SMILE 0899A

# RULES

*Each player takes a bingo card.  
Put the playing cards face-down on the table.  
Take turns to turn over the top card.  
Read it out.  
When one of the "times" on your bingo card is called, claim the card and cover up the space.*

*The winner is the first to cover up all the times on his bingo card.*



# Time Bingo

Get up



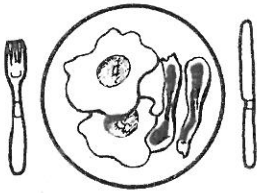
7.45

School ends



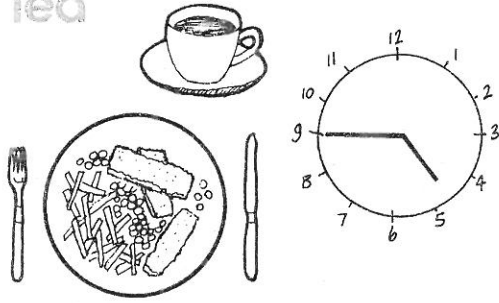
3.30

Breakfast



8.05

Tea

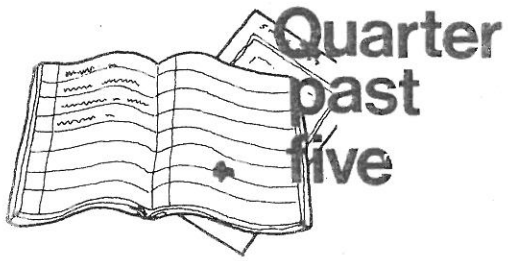


School starts

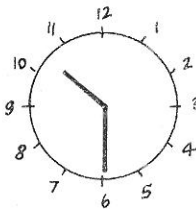


Five  
to  
nine

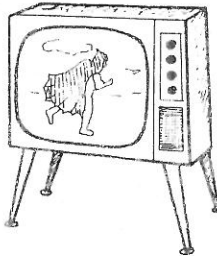
Homework



Break-time

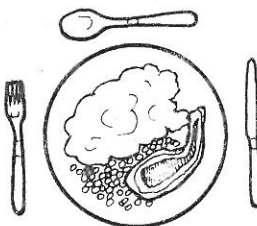


Watch TV



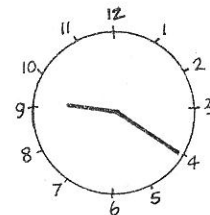
8.10

Lunch



Twelve  
o'clock

Bed





# Time Bingo

Get up



7.15

School ends



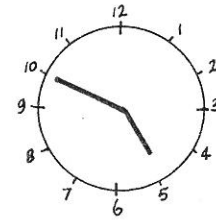
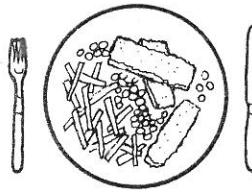
3.45

Breakfast



7.35

Tea

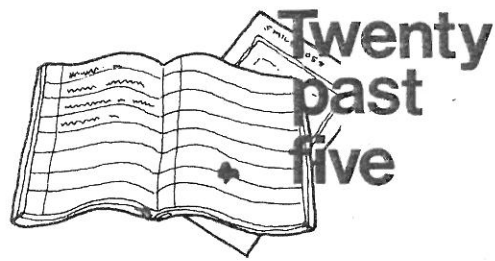


School starts



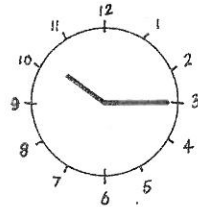
Nine  
o'clock

Homework

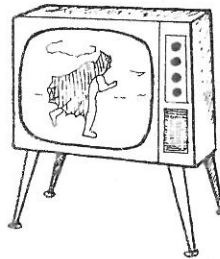


Twenty  
past  
five

Break-time

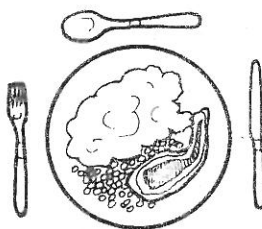


Watch TV



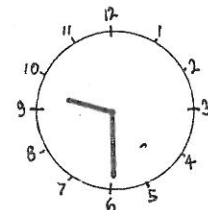
8.15

Lunch



Quarter  
past  
twelve

Bed



# Time Bingo

Get up



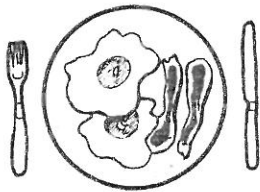
7.30

School ends



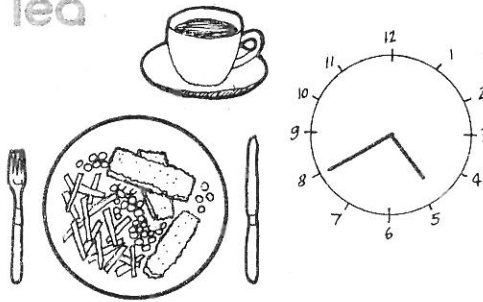
3.50

Breakfast



7.50

Tea

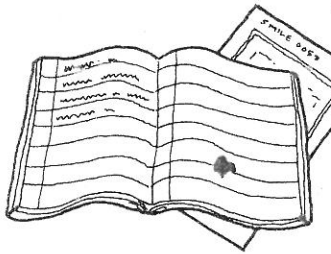


School starts



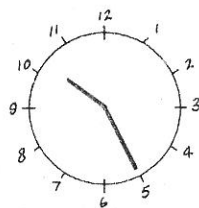
Five  
past  
nine

Homework

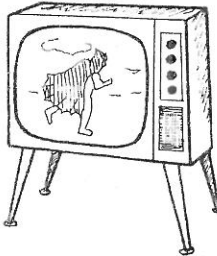


Ten  
past  
five

Break-time

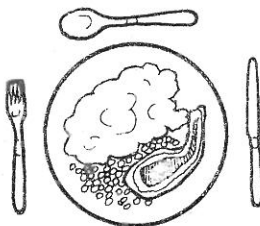


Watch TV



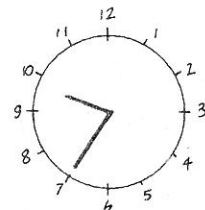
8.30

Lunch



Five  
past  
Twelve

Bed





# Time Bingo

Get up



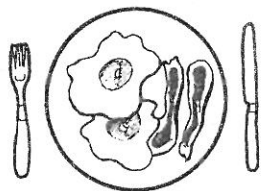
8.00

School ends



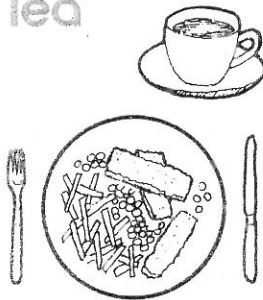
4.10

Breakfast



8.20

Tea

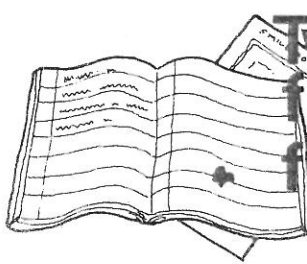


School starts



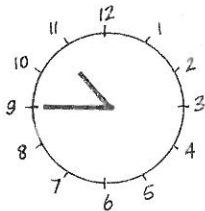
Quarter  
past  
nine

Homework

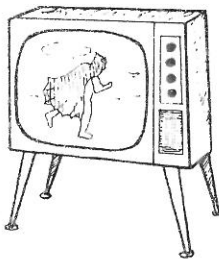


Twenty  
five past  
five

Break-time

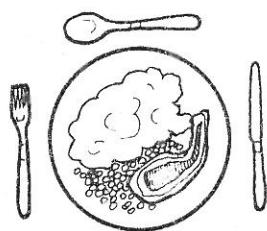


Watch TV



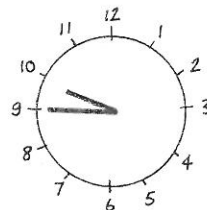
8.40

Lunch



Half  
past  
twelve

Bed



9.05

9.15

9.00

12.30

9.35

8.55

12.15

12.00

5.10

5.15

9.20

12.05

5.25

9.45

9.30

5.20



**Seven thirty**

**Seven forty five**

**Eight thirty**

**Ten to five**

**Ten past eight**

**Quarter past ten**

**Half past ten**

**Eight forty**

**Twenty five past ten**

**Quarter to eleven**

**Twenty to five**

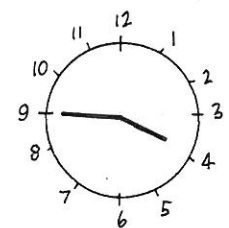
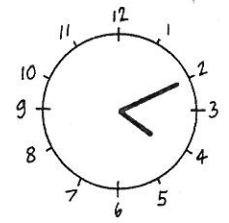
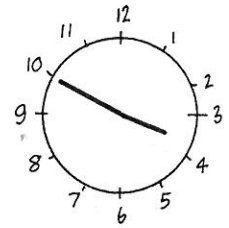
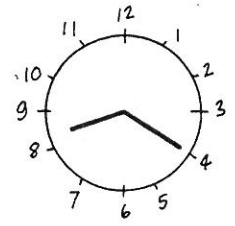
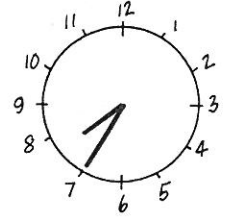
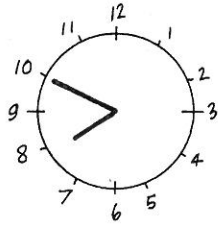
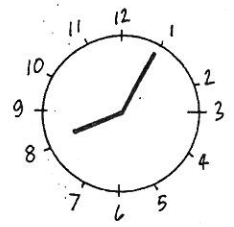
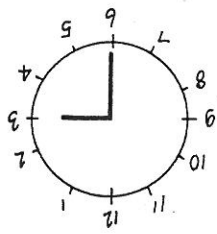
**Seven fifteen**

**Five o'clock**

**Eight o'clock**

**Eight fifteen**

**Quarter to five**

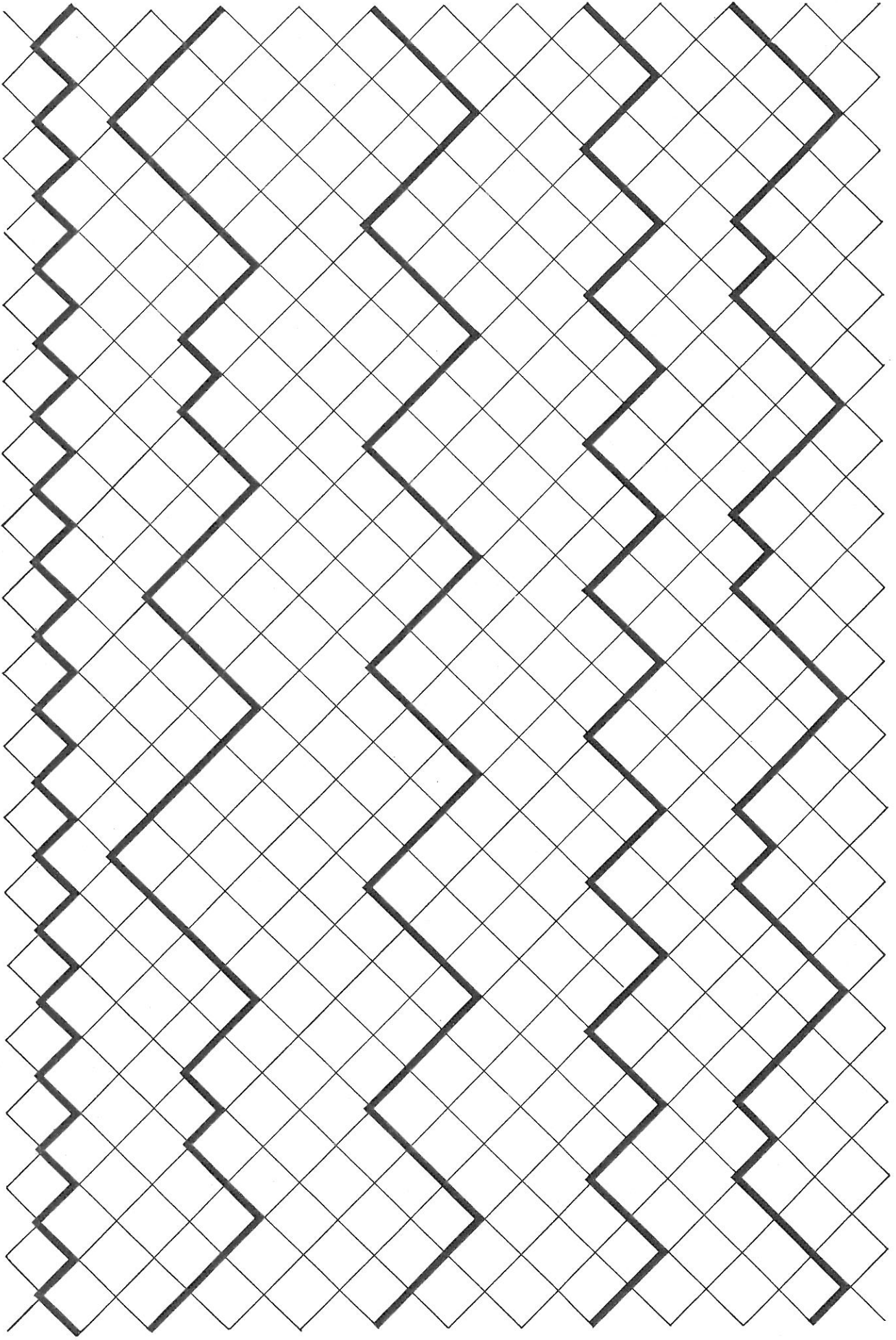




# Zigzag

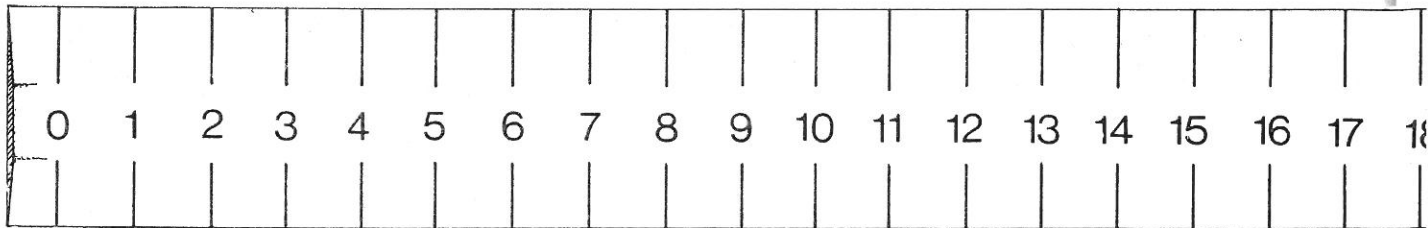
Smile Worksheet 1768

Which line is longest? How do you decide? Can you draw a longer zig-zag?



You will need a centimetre ruler.

This ruler is marked in centimetres.



It is 10 cm from B to E.

How long is it from:

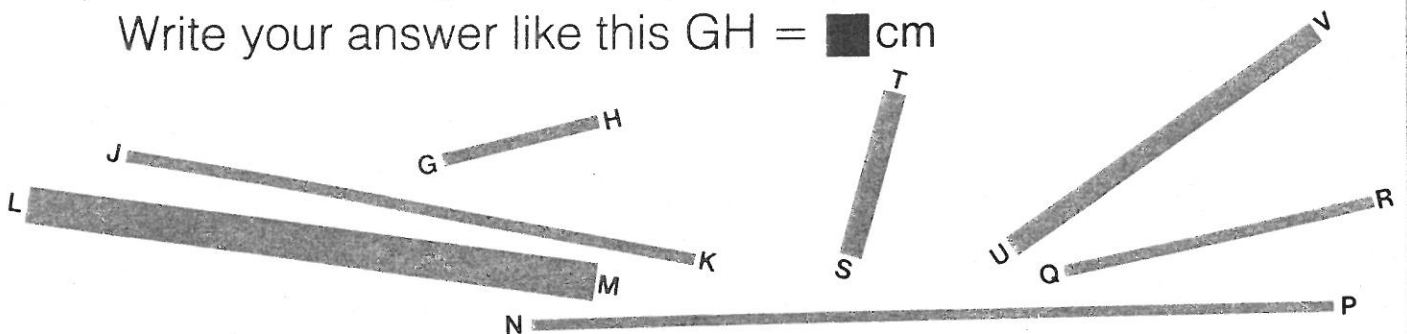
- |           |           |           |
|-----------|-----------|-----------|
| 1) A to B | 4) B to C | 7) C to F |
| 2) A to C | 5) B to E | 8) C to E |
| 3) A to E | 6) A to F | 9) D to F |

10) Guess how long your pencil is. Measure it with your ruler.

11) Guess and measure how long these are:  
a) this card      b) your book

12) Guess how long these strips are. Then measure them.

Write your answer like this  $GH = \blacksquare \text{ cm}$



Discuss *which was your best guess?*  
*which was your worst guess?*

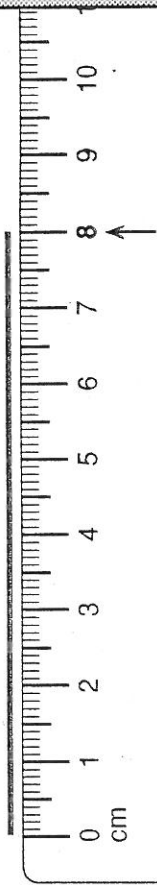


# With a ruler

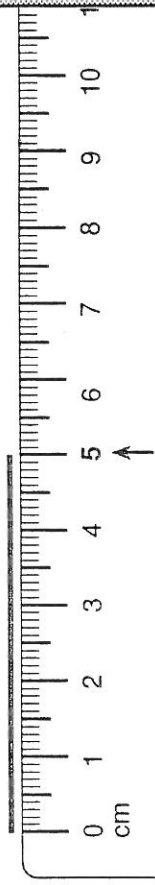
You will need a centimetre ruler.

## Measuring a line

- Place the ruler so that the 0cm mark is at one end of the line.
- Read how far along the line the ruler goes.



This line is **8cm** long.



This line is **5cm** long.

1. How long is this line?



2. Measure these lines. Be careful to place one end of the line on 0cm.

a) \_\_\_\_\_

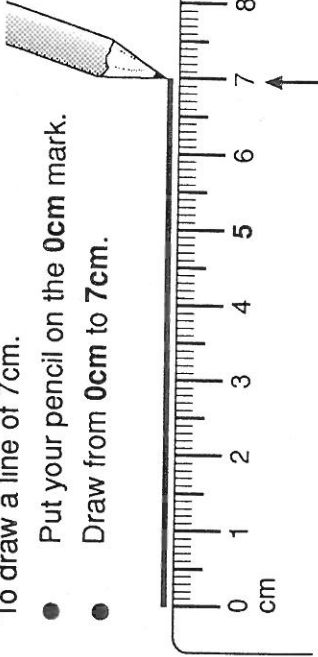
b) \_\_\_\_\_

c) \_\_\_\_\_

## Drawing a line

To draw a line of 7cm.

- Put your pencil on the 0cm mark.
- Draw from 0cm to 7cm.



This line is **7cm** long.

3. Draw a line

- a) 4cm long      b) 8cm long      c) 10cm long

## Drawing a line twice as long

This line is **5cm** long.

This line is **twice** as long.  
It is **10cm** long.      ( $5 \times 2 = 10$ )

4. Measure these lines. For each one draw a line twice as long.

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

### Measuring zig-zag lines



$$7\text{ cm} + 5\text{ cm} = 12\text{ cm}$$

The total length of this zig-zag line is 12cm.

### Drawing zig-zag lines

6. Draw zig-zag lines which have a total length of

- a) 9cm
- b) 14cm
- c) 8cm

5. Measure these zig-zag lines.  
What is the total length of each zig-zag line?



Turn over.

# Jumping



Pick 6 people in your class.

- Measure and record how far each one can jump from standing.
- Who can jump the furthest?
- Put the jump sizes in order.



# Metre and Centimetre

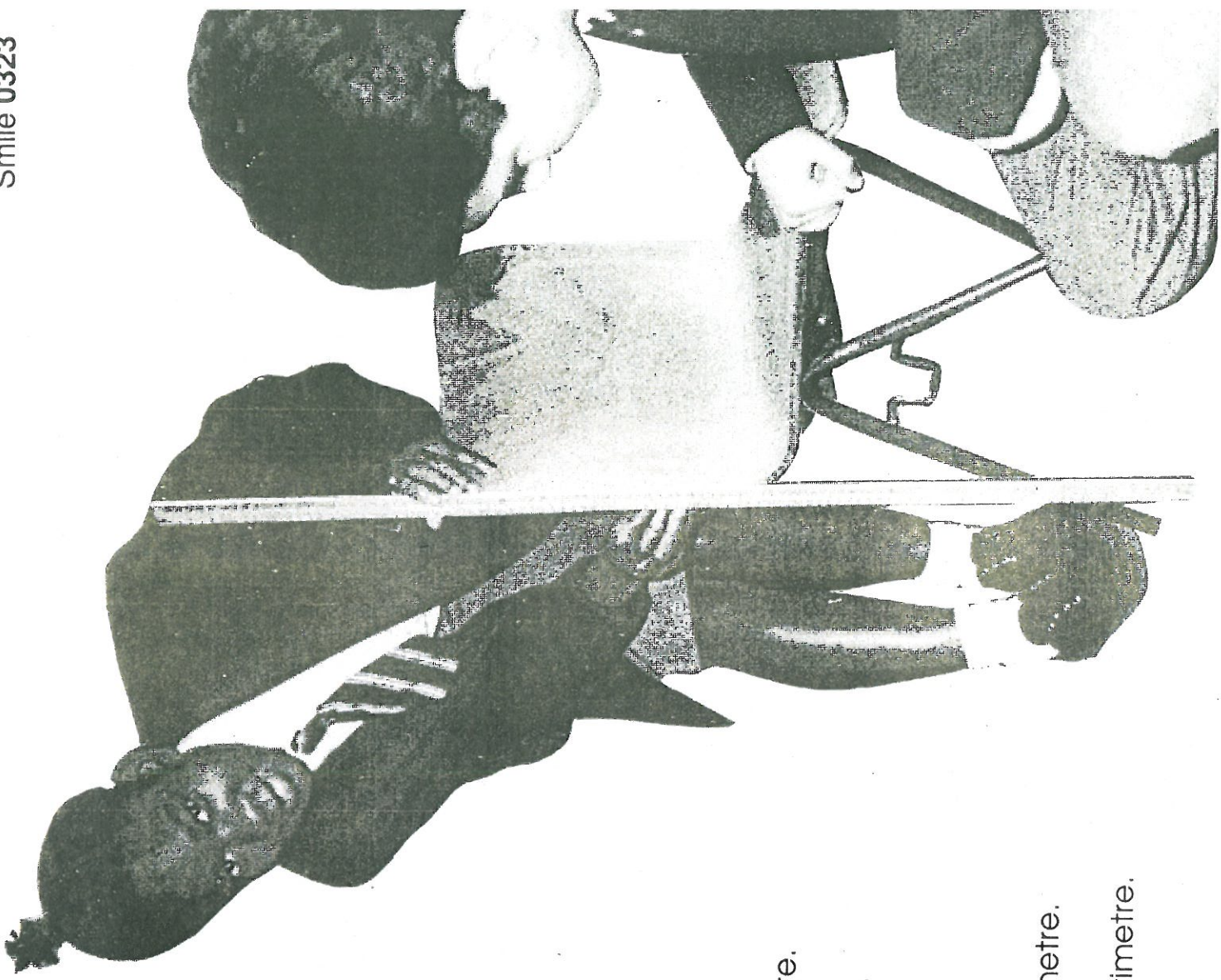
Use a metre ruler.

*Is a chair more than a metre high?*

1. Find some things that are more than a metre.
2. Find some things that are less than a metre.

Look for a centimetre on the metre ruler.

3. Find some things that are less than a centimetre.
4. Find some things that are more than a centimetre.



# Matching Weights

You will need: glue, scissors

1. Cut out the weights at the bottom of this worksheet and match them to the objects.
2. Show each weight on the scales.

Remember 1kg = 1000g

Scissors icon

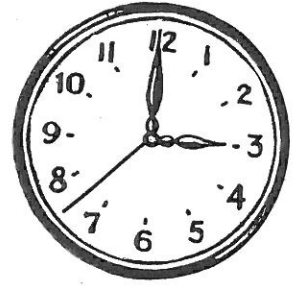
# About how long?

Work with someone else.

- a. Discuss how long it takes to do each of these.

Then time yourselves.

*How close were you?*



You will need a clock or a watch.

① Count up to 100

1, 2, 3, 4....

Guess	Actual Time
-------	-------------

② Count down from 100

100, 99, 98....

Guess	Actual time
-------	-------------

③ Write your name

Guess	Actual time
-------	-------------

④ Do  $12 \times 4$  without a calculator

$12 \times 4$

Guess	Actual time
-------	-------------

⑤ Do  $12 \times 4$  with a calculator

Guess	Actual time
-------	-------------

⑥ Take the register

Guess	Actual time
-------	-------------

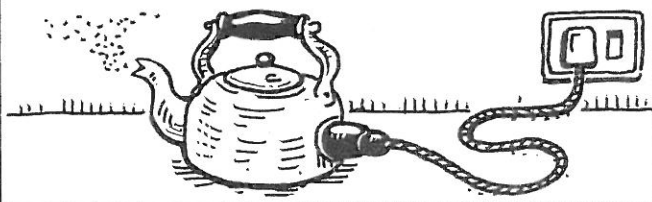
⑦ Make one big cube using 27 smaller cubes

Guess	Actual time
-------	-------------



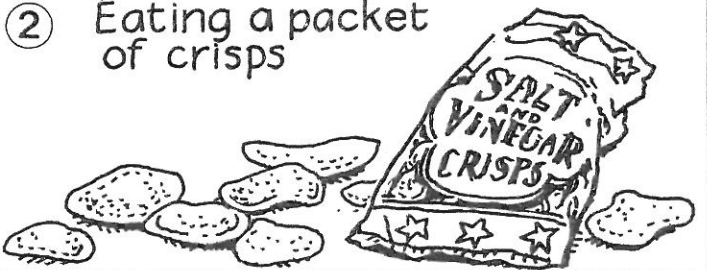
b. Choose 3 of these and then do some of your own.

① Boiling a kettle



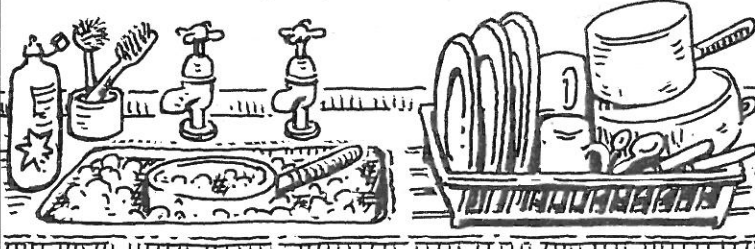
Guess	Actual time
-------	-------------

② Eating a packet of crisps



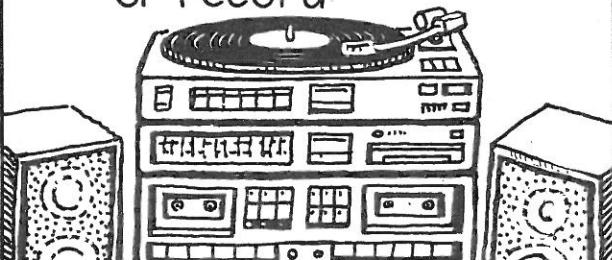
Guess	Actual time
-------	-------------

③ Washing up



Guess	Actual Time
-------	-------------

④ Listening to a cassette or record



Guess	Actual time
-------	-------------

⑤ Getting home from school



Guess	Actual time
-------	-------------

⑥

Guess	Actual time
-------	-------------

⑦

Guess	Actual Time
-------	-------------

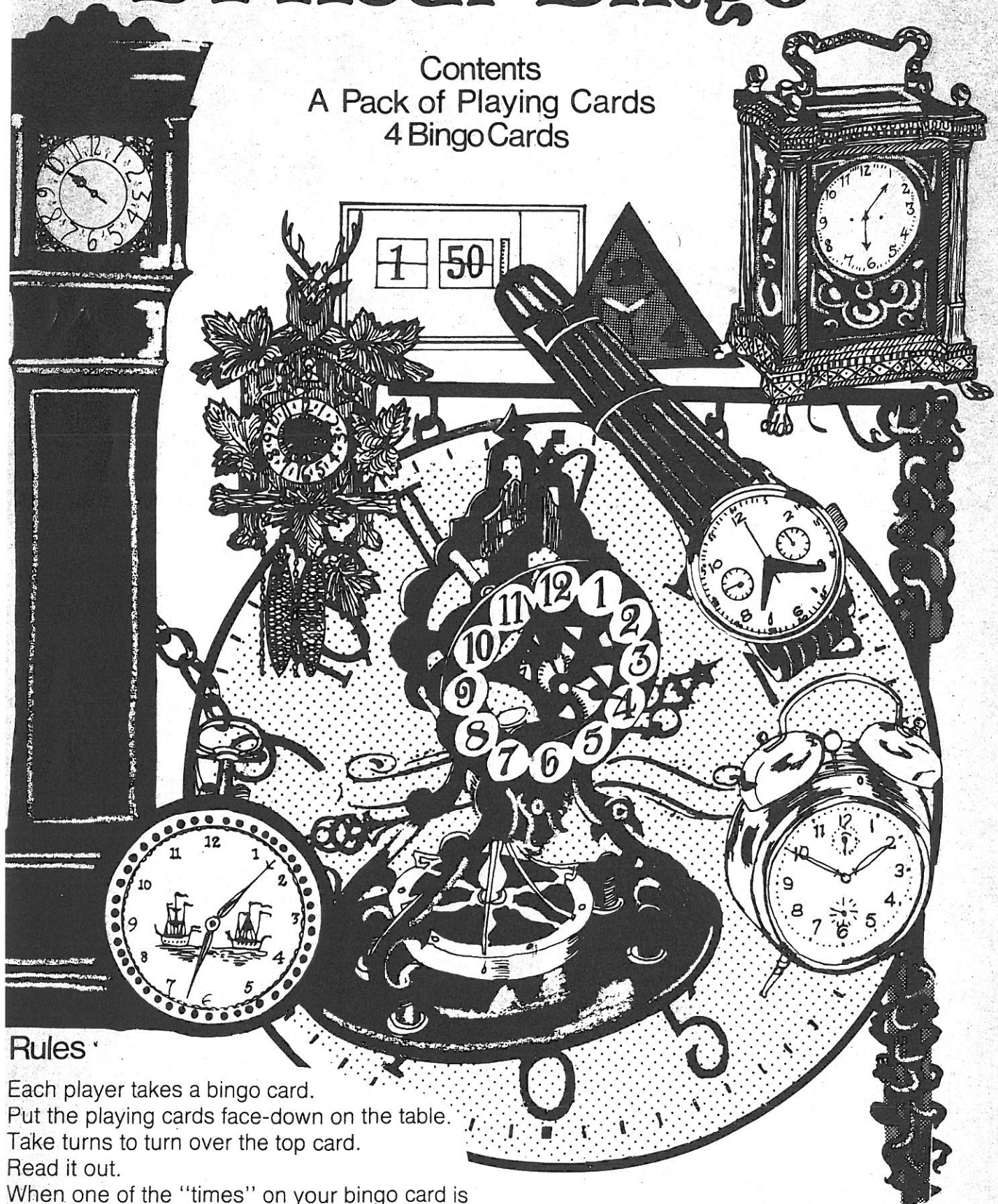
⑧

Guess	Actual Time
-------	-------------

Smile 0900

# 24 Hour Bingo

Contents  
A Pack of Playing Cards  
4 Bingo Cards



## Rules

Each player takes a bingo card.  
Put the playing cards face-down on the table.  
Take turns to turn over the top card.  
Read it out.  
When one of the "times" on your bingo card is called, claim the card and cover up the space.

The winner is the first to cover up all the times on his bingo card.

# 24 Hour Bingo

Get up



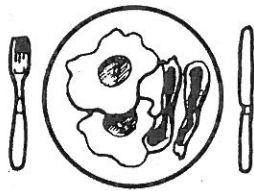
7.30

School ends



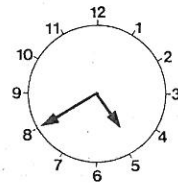
3.50

Breakfast



7.50

Tea

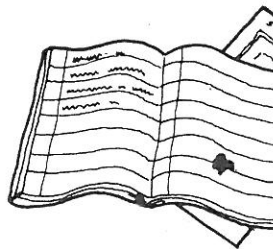


School starts



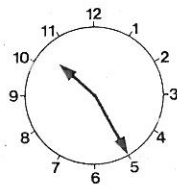
Five  
past  
nine

Homework

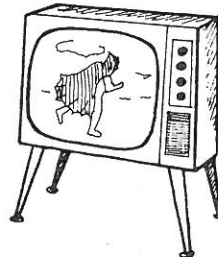


Ten  
past  
five

Break-time

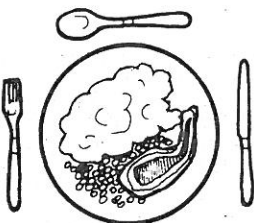


Watch TV



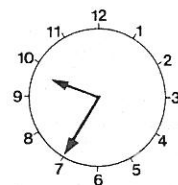
8.30

Lunch



Five  
past  
twelve

Bed





# 24 Hour Bingo

Get up



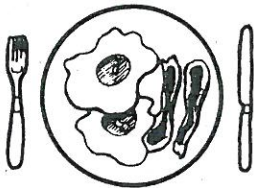
7.45

School ends



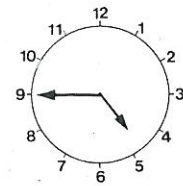
3.30

Breakfast



8.05

Tea

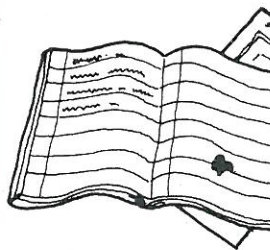


School starts



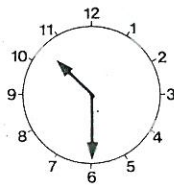
Five  
to  
nine

Homework

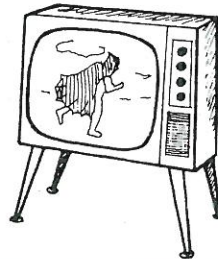


Quarter  
past  
five

Break-time

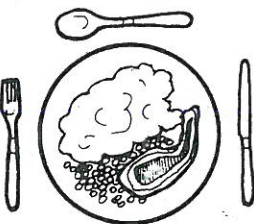


Watch TV



8.10

Lunch



Twelve  
o'clock

Bed



# 24 Hour Bingo

Get up



7.15

School ends



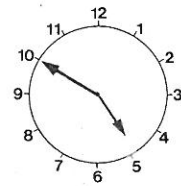
3.45

Breakfast



7.35

Tea

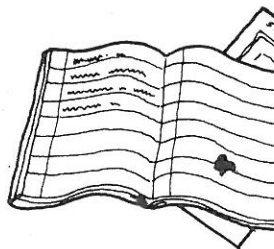


School starts



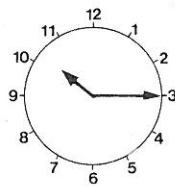
Nine  
o'clock

Homework

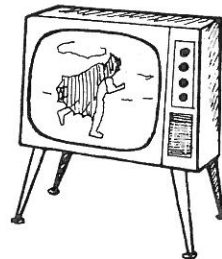


Twenty  
past  
five

Break-time

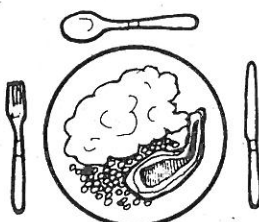


Watch TV



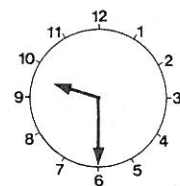
8.15

Lunch



Quarter  
past  
twelve

Bed





# 24 Hour Bingo

Get up



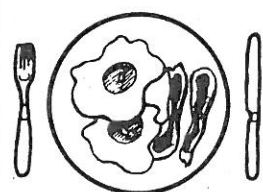
8.00

School ends



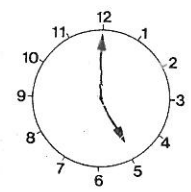
4.10

Breakfast



8.20

Tea

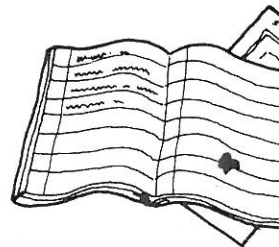


School starts



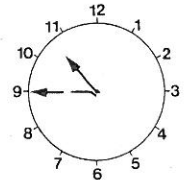
Quarter  
past  
nine

Homework

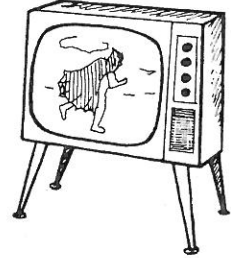


Twenty  
five past  
five

Break-time

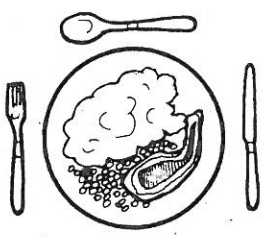


Watch TV



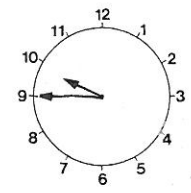
8.40

Lunch



Half  
past  
twelve

Bed





17.00

09.05

21.30

12.05

12.30

12.15

10.30

10.25

15.30

15.45

10.45

17.15

16.10

17.25

07.15

16.50

20.30

17.10

08.05

20.10

08.00

08.20

21.20

15.50

16.45

17.20

20.15

09.15

10.15

07.30

07.35

20.40

09.00

21.35

08.55

12.00

16.40

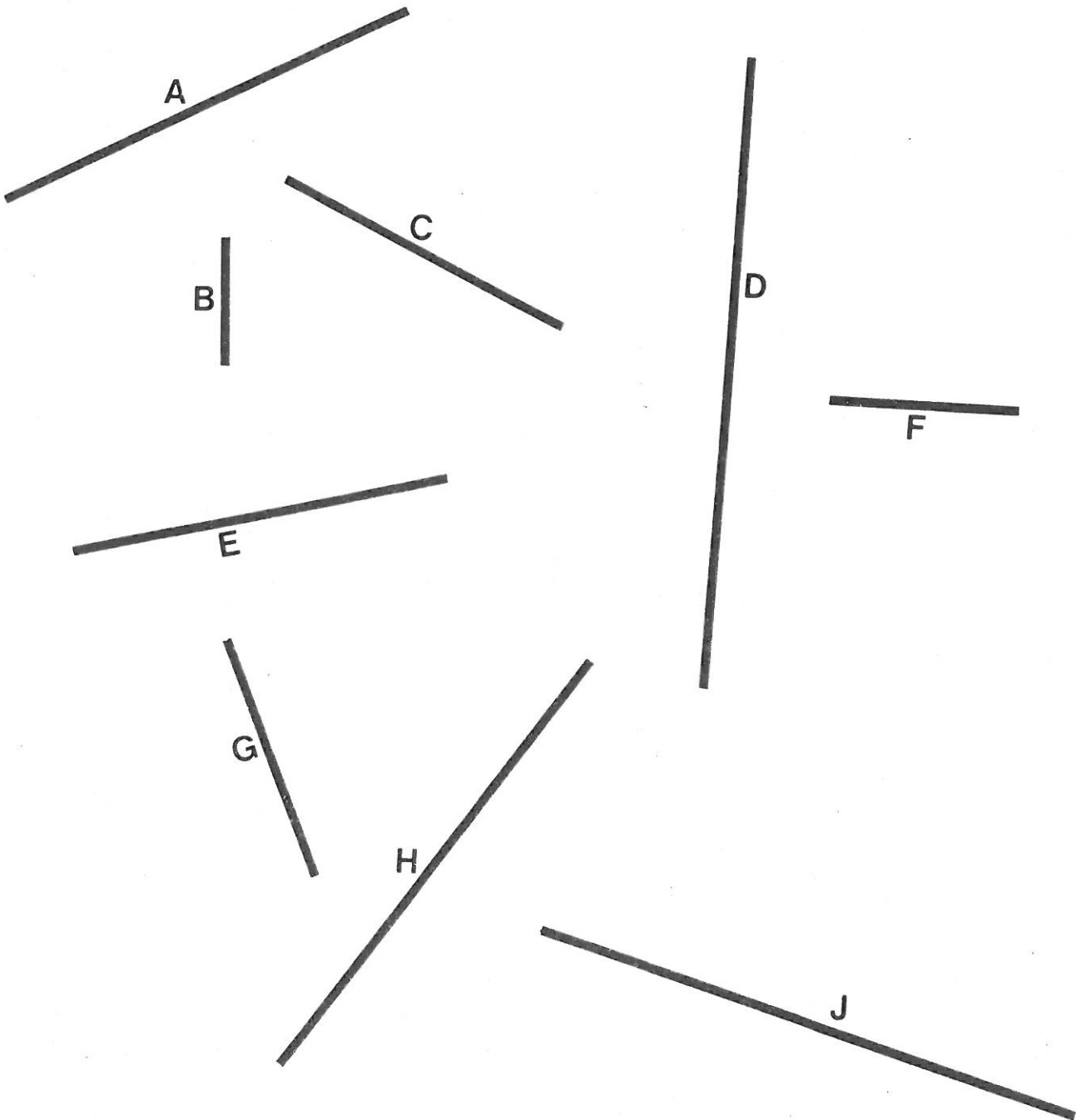
21.45

07.45

07.50

# LOOK AND GUESS

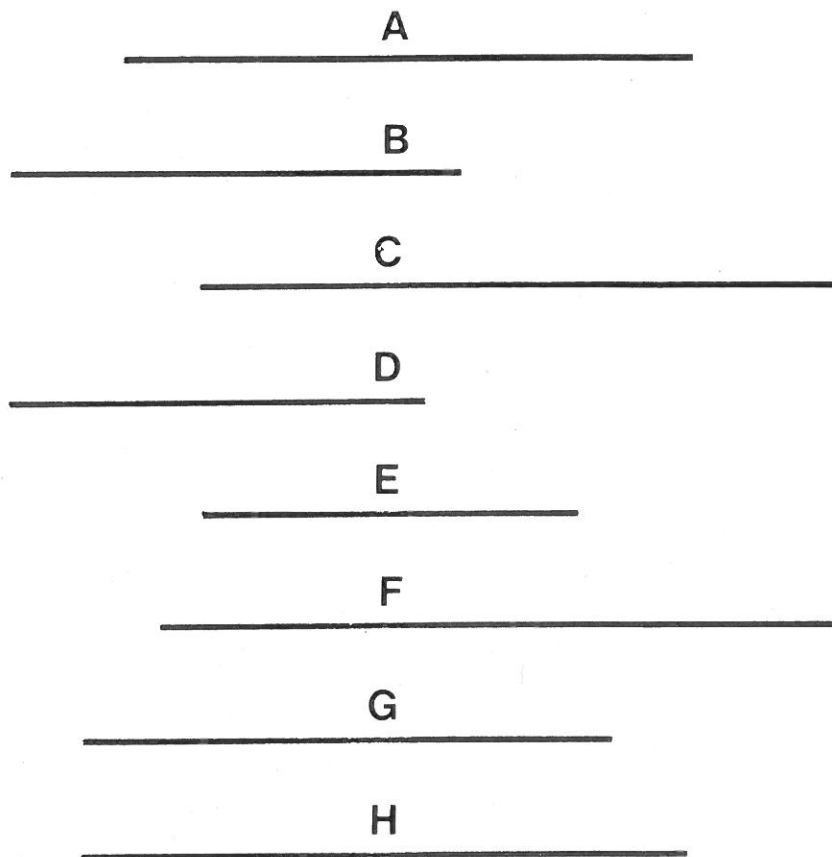
Study the lines for a moment.



- 1 Which is longest?
- 2 Which is shortest?
- 3 Make a list of the lines in order of size.

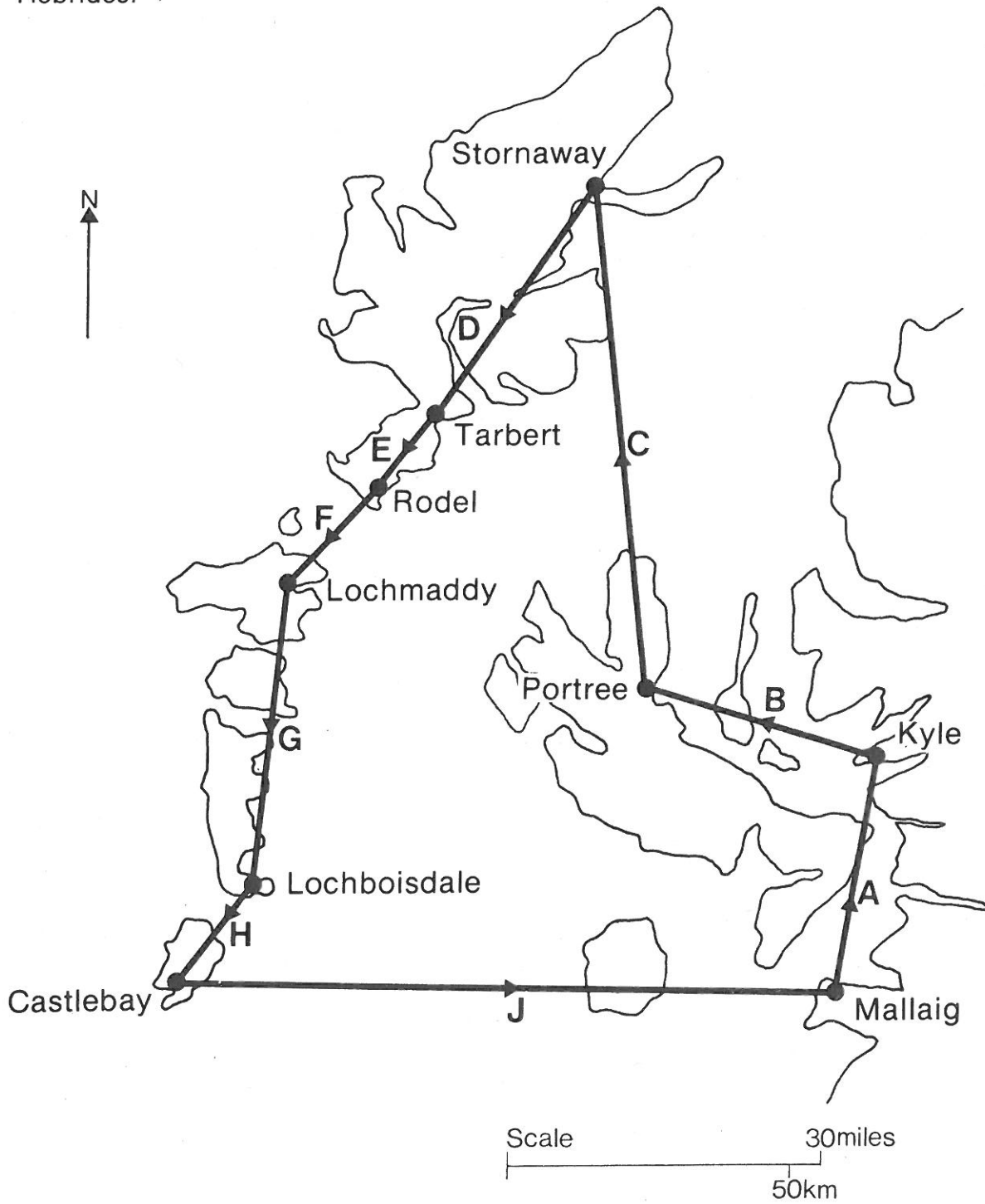


These lines are all very similar.



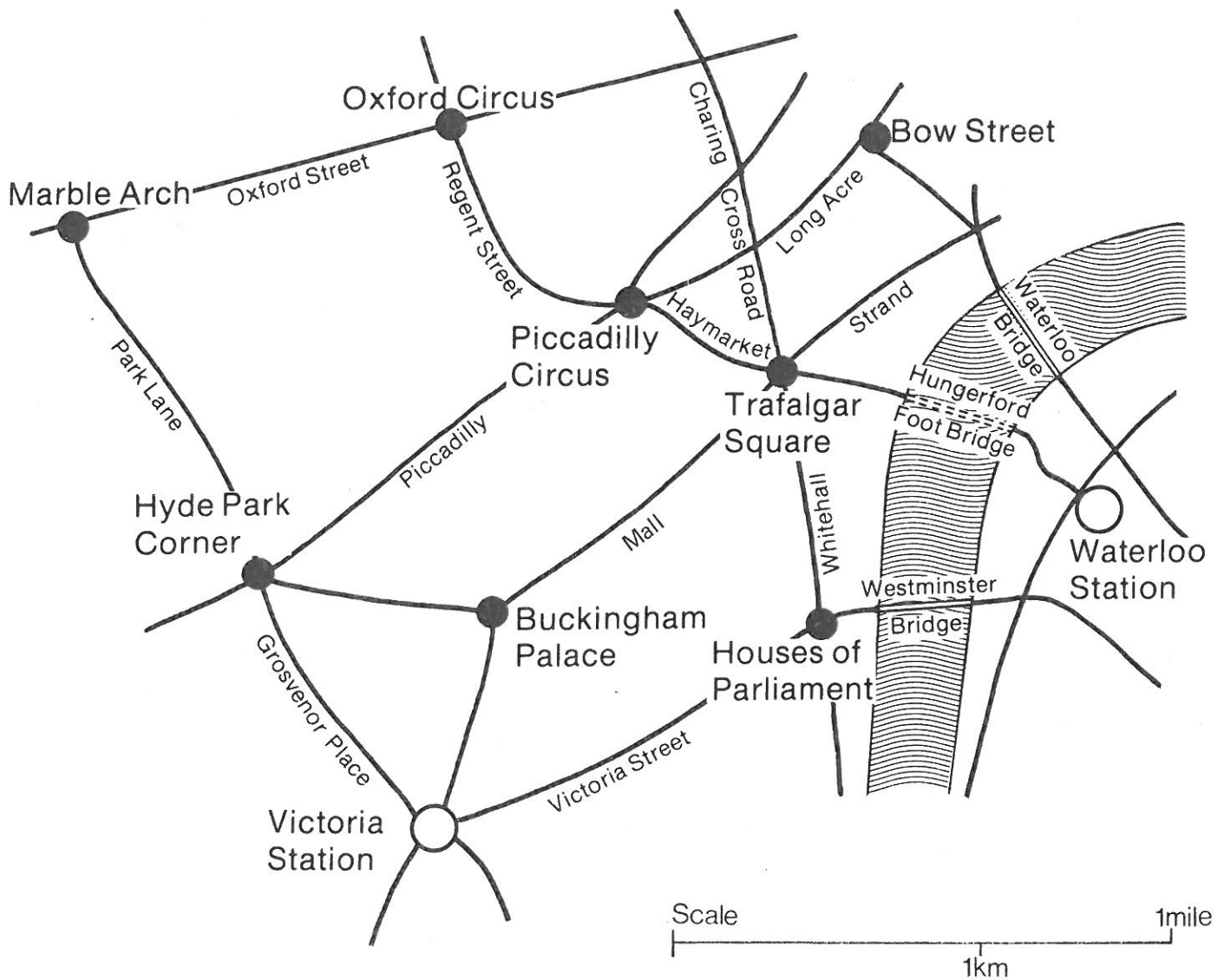
- 4 Which is longest?
- 5 Which is shortest?
- 6 Make a list of the lines in order of size.

A mail plane visits all these towns in the Hebrides.



- 7 Which part of the journey is longest?
- 8 Which is shortest?
- 9 Make a list in order of size.

Turn over



- 10 Which is nearer to Victoria Station?  
 (a) Buckingham Palace  
 (b) Houses of Parliament
- 11 Which is nearer to Trafalgar Square?  
 (a) Buckingham Palace  
 (b) Houses of Parliament
- 12 Which is nearer to Marble Arch?  
 (a) Hyde Park Corner  
 (b) Oxford Circus
- 13 Which is nearer to Piccadilly Circus?  
 (a) Hyde Park Corner  
 (b) Oxford Circus
- 14 Which is shorter?  
 (a) Marble Arch to Piccadilly Circus  
 via Oxford Circus  
 (b) Marble Arch to Piccadilly Circus  
 via Hyde Park Corner

- 15 You arrive at Waterloo Station.  
 You want to see Trafalgar Square  
 Piccadilly Circus  
 Bow Street Police Station  
 Houses of Parliament

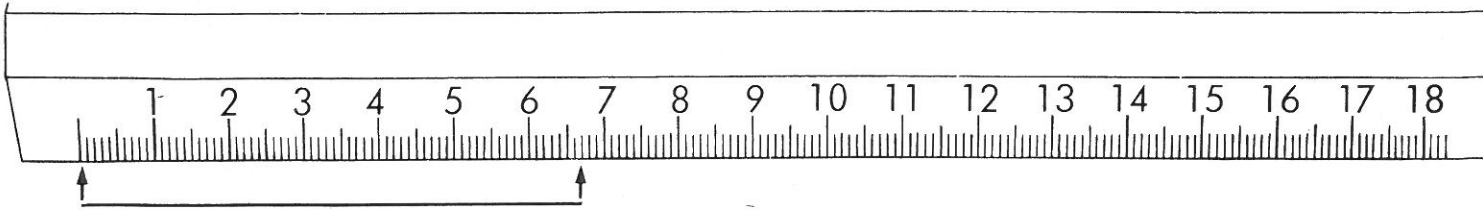
Which route is best?

- 16 If you are to travel by taxi from Trafalgar Square which BR station is nearer?  
 (a) Waterloo  
 (b) Victoria

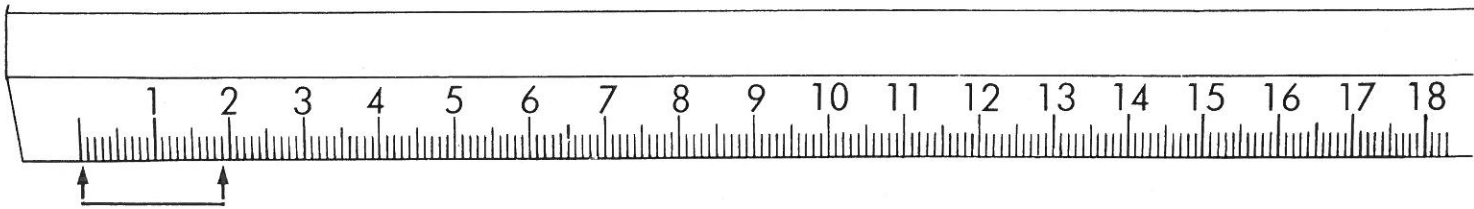
You will need a ruler

Smile 0294

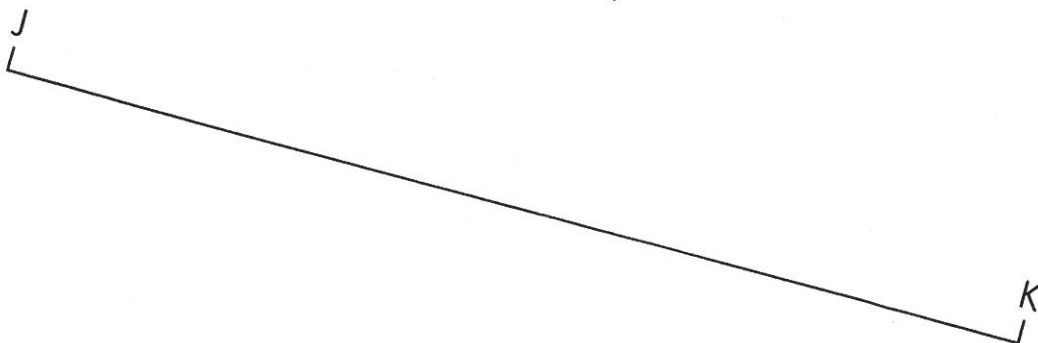
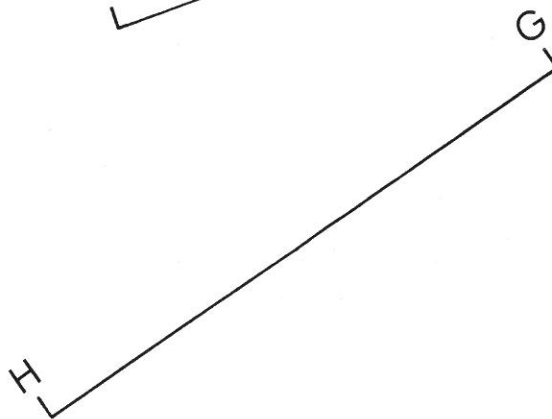
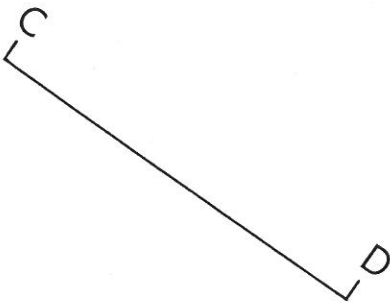
# Measuring Lengths



The length of this line is 6.7cm



- 1) How long is this line?
- 2) Measure these five lines. Write down their lengths.

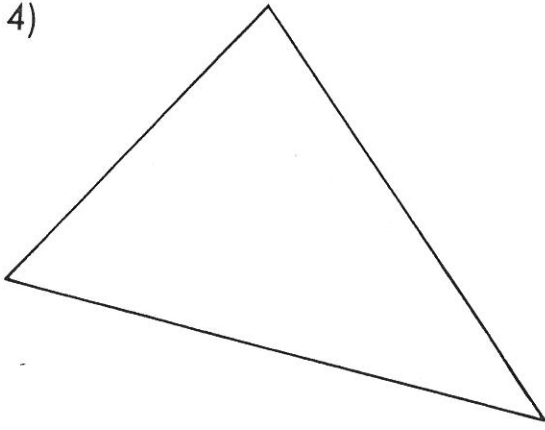


- 3) Put the lengths of AB, CD, EF, GH, JK in order of size with the shortest first.

Turn over



4)



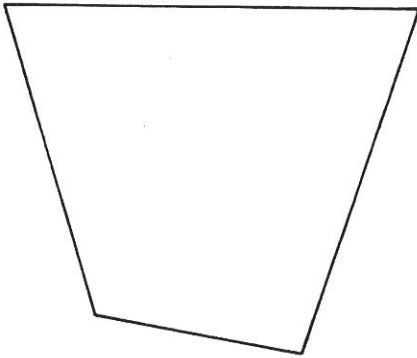
The lengths of the sides of this triangle are 7.4 cm, 5.0 cm and 6.6 cm.

$$\begin{array}{r} 7.4 \\ 5.0 \\ + 6.6 \\ \hline 19.0 \text{ cm} \end{array}$$

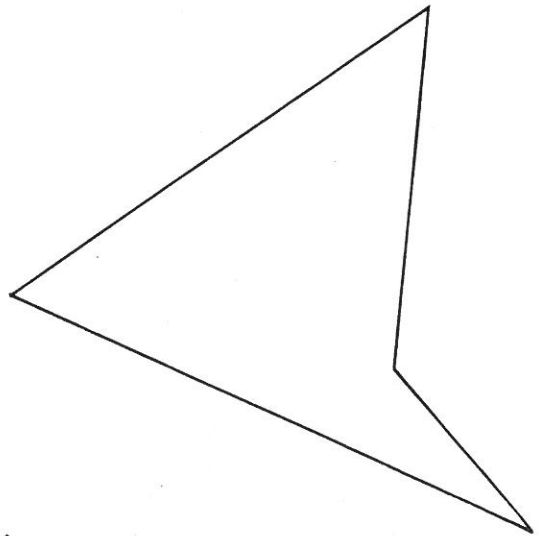
So the perimeter of the triangle is 19.0 cm.

Find the perimeters of these shapes:

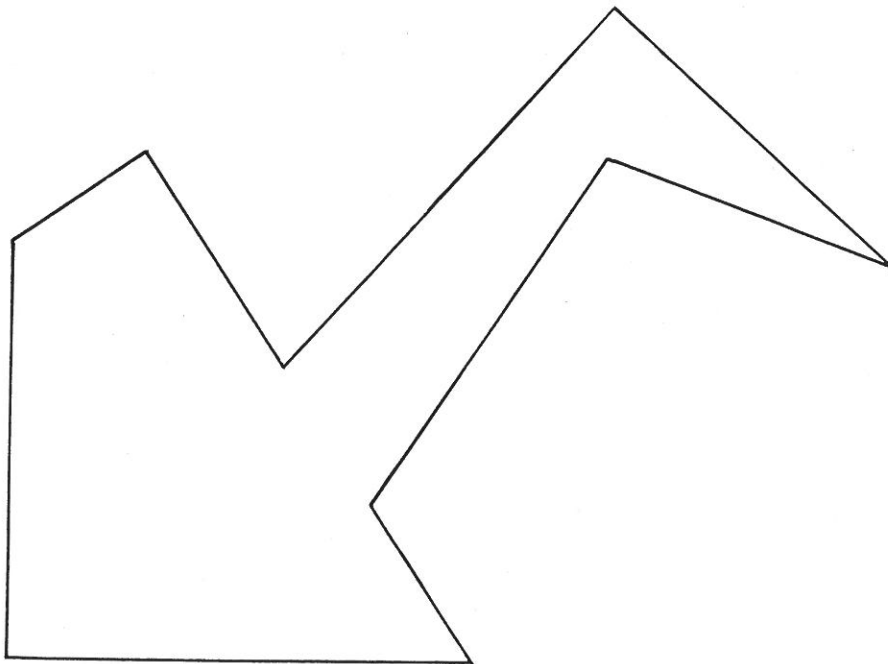
5)



6)



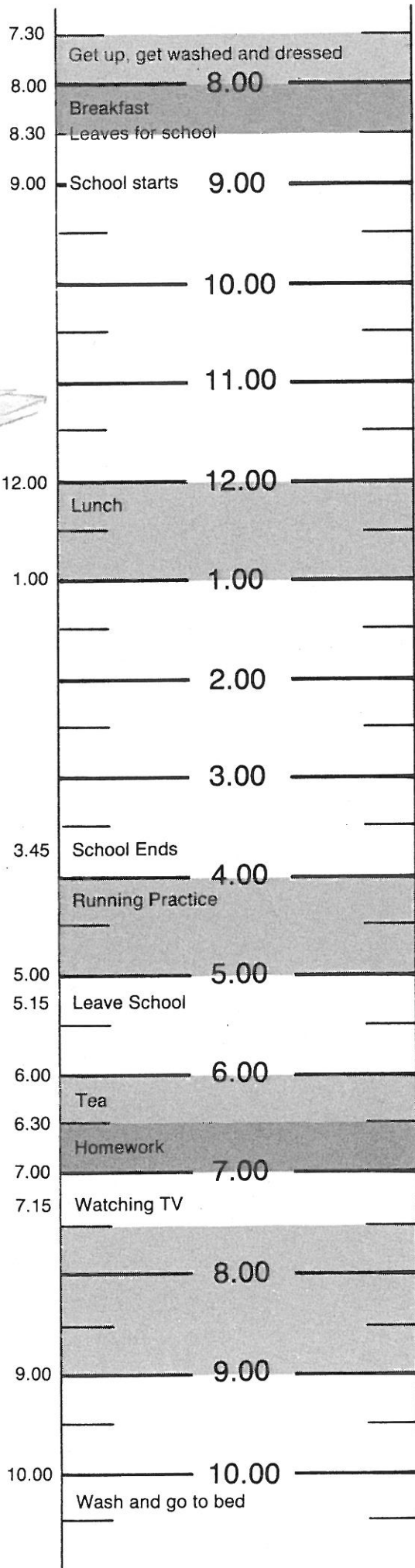
7)



# Sunita's Day

Use the time line.

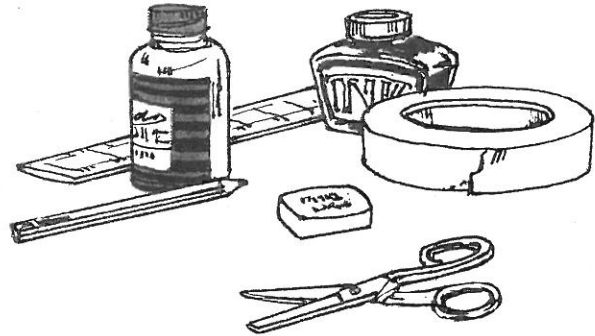
- Sunita starts watching TV at 7.15 and finishes at 9.00. How much time does she spend watching?
  - How much time does she spend at running practice?
  - On homework?
  - In school lessons?
- How long is Sunita's day?
- If she gets up at the same time tomorrow how much sleep will she have had?



You will need scales

## How Heavy?

Collect 7 small objects.



- 1) Guess which is the heaviest.
- 2) Guess which is the lightest.
- 3) Hold each object. Make a list of them in order of weight – heaviest first.

*Heaviest*

*lightest*

- 4) Now check by weighing. Make a new list – heaviest first – and give the weights.

<i>object</i>	<i>weight</i>

