

fs4u

Using Percentages

‘How To’ Booklet 3

Using Percentages

For this 'How To' Booklet you will need:

- tracing paper
- pair of compasses to draw circles

By the end of this Booklet you should be able to use percentages with greater ease.

Look at these stripes which are coloured in black

A



B



C



D



RULE

$$\frac{1}{2} = 50\% \quad \frac{1}{4} = 25\% \quad \frac{3}{4} = 75\%$$

Choose two of these statements to describe each stripe.

- i More than 50% is black
- ii Less than 25% is black
- iii Less than 75% is black
- iv More than 75% is black
- v More than 25% is black

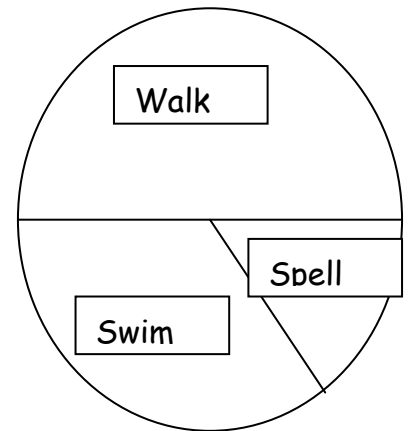
If uncertain what to do, look at the answers for strip A

- 1 Strip A is
- 2 Strip B is
- 3 Strip C is
- 4 Strip D is

Check your answers

Now let's apply this to circles or pie charts. This is a pie chart showing sponsored events.

- 5 What % of funds was raised by a sponsored spell?
- 6 What % of funds was raised by a sponsored walk?
- 7 What % of funds was raised by a sponsored swim?

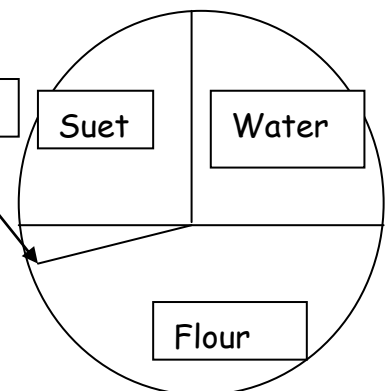
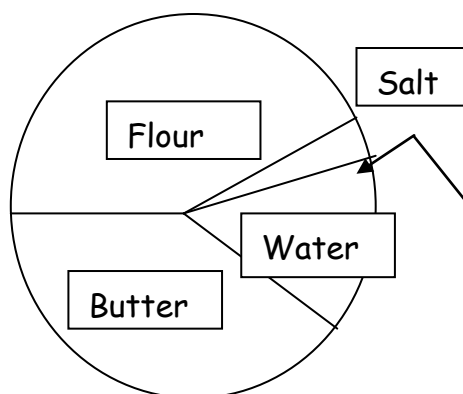
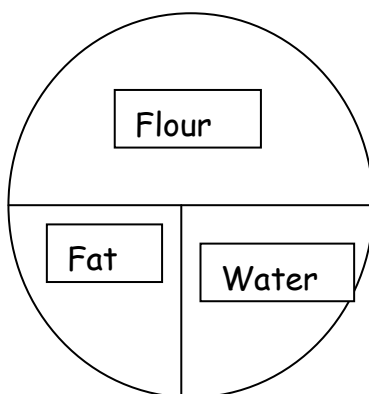


These charts show three types of pastry

SHORTCRUST

PUFF PASTRY

SUET PASTRY

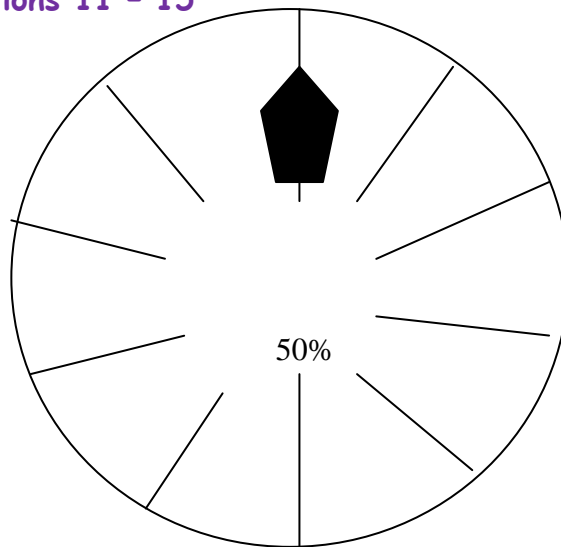


For each one say which percentage is:

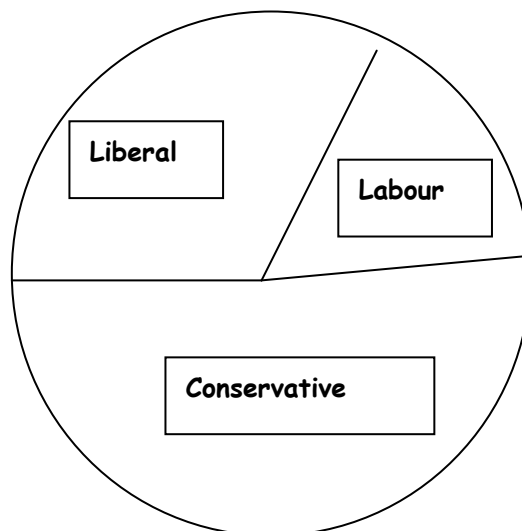
- 8 Flour
- 9 Fat
- 10 Water

Check your answers

Copy this percentage dial on to tracing paper and use it to estimate percentages in questions 11 - 15



11 What percentage of the vote did each party get?



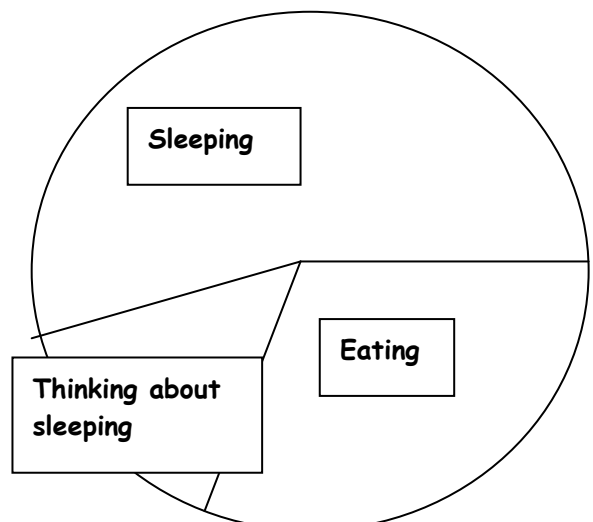
12. What percentage of the day does the dog spend:

a. sleeping?

b. eating?

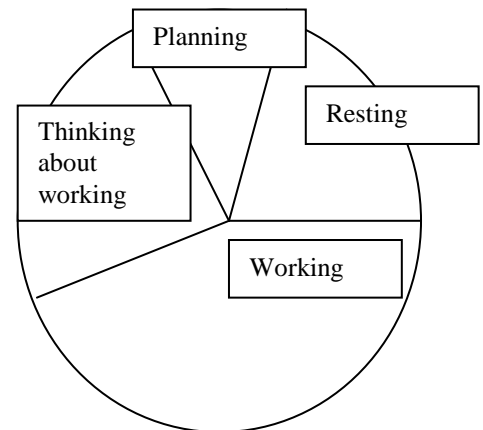
c. thinking about sleeping?

A DOG'S DAY



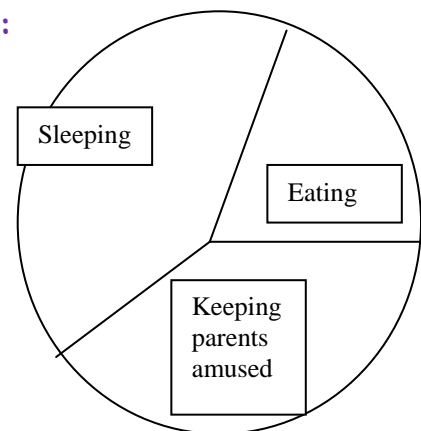
13 What percentage of the worktime does the student spend:-

- a. planning?
- b. thinking about working?
- c. working?
- d. resting?



14. What percentage of the baby's week is spent:

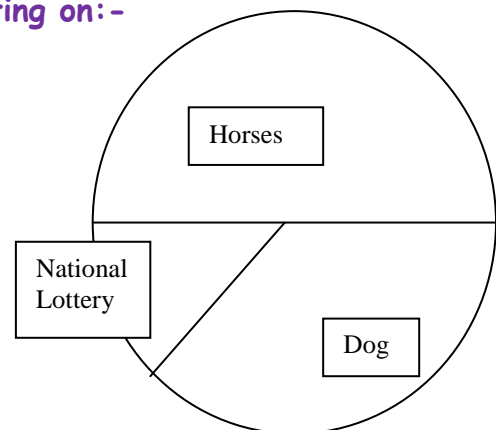
- a. sleeping?
- b. keeping parents amused?
- c. eating?



15 A gambler's losses.

What percentage of the losses were from betting on:-

- a. horses?
- b. dogs?
- c. National Lottery?



Finally draw two pie charts and show the following percentages on it. Make them the same size as your tracing.

16 A man's body weight is made up of 42% muscles, 18% fat, 18% bone, and 22% other things.

17 A woman's body weight is made up of 36% muscles, 28% fat, 18% bone and 18% other things.

Assessment Test

Here are some figures:-

of 100 people asked about their drinking habits

46 drank alcohol at weekends only

23 drank alcohol 3 days a week

15 drank alcohol 4 days a week

10 drank alcohol every day

Remember one person = 1% here.

Complete these statements with a number, choosing from:- 5, 25, 35, 50

1. Less than % only drank at weekends
2. More than % drank every day
3. About % drank 3 days a week
4. Less than % drank more than 3 times a week.