

10. On the bridge.



The bridge was finished in 1723. How many years ago is that?

11. At the gates in front of the Palace.



One day in the car park there were:

- Three hundred and twenty-six cars
- Twenty-three coaches
- Sixteen vans
- Six lorries

How many vehicles were parked in the car park?

Answer in numbers _____

Answer in words _____

12. Near the exit from the shop

Count the number of people who come out of the shop in ten minutes. If people come out at this rate all the time:-

a. How many will come out in one hour?

b. If the shop is open each day from 10.00am to 6.00pm, how many people will come out in one day?

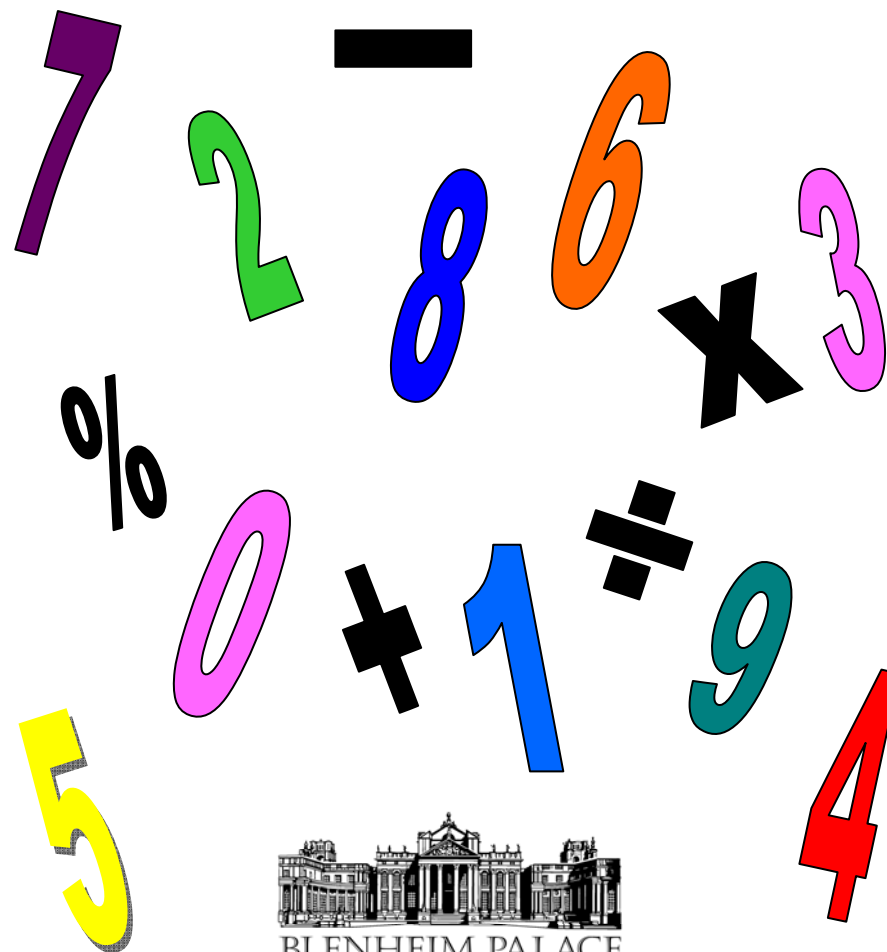


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MATHS TRAIL

KEY STAGE 2: MATHEMATICS

NAME: _____



BLENHEIM PALACE

Questions answered at stops 1 - 12 are marked on the map of the grounds shown opposite.



PLEASE REMEMBER TO WATCH OUT FOR TRAFFIC WHEN WALKING ON ALL ROADS

1. From the Crossroads...



... to where the two walls form a corner

estimate how many paces to walk this distance

.....

Now walk it. Stay on the grass on the right hand side and keep away from traffic.

How many paces did you walk?

.....

Was your estimate correct? YES/NO

2. Where the 2 walls form a corner

a. Which is the widest of the three trees here - the right, left or middle one?



b. Choose sufficient people to reach around this tree by joining arms and stretching round it. Now stand everyone in a line with their arms outstretched.

Estimate how far it is around the widest tree?

.....

b. How many have ages which are odd numbers?

c. What is the total of all the even-numbered ages?

d. How old was Mr Maisey when Paul was born?

e. Joan is older than Elizabeth by how much?

9. At this road junction



a. From the road junction to the Grand Bridge is 700 metres. How many cms is this?

How many mms?

How long do you think it will take you to walk this distance?

Walk this distance now. Were you correct?

YES/NO

7. The Seven Arches Bridge (at the bottom of the bank).



If the water flows here into the Lake at 500 litres per minute, how much water will flow into the Lake in one hour?

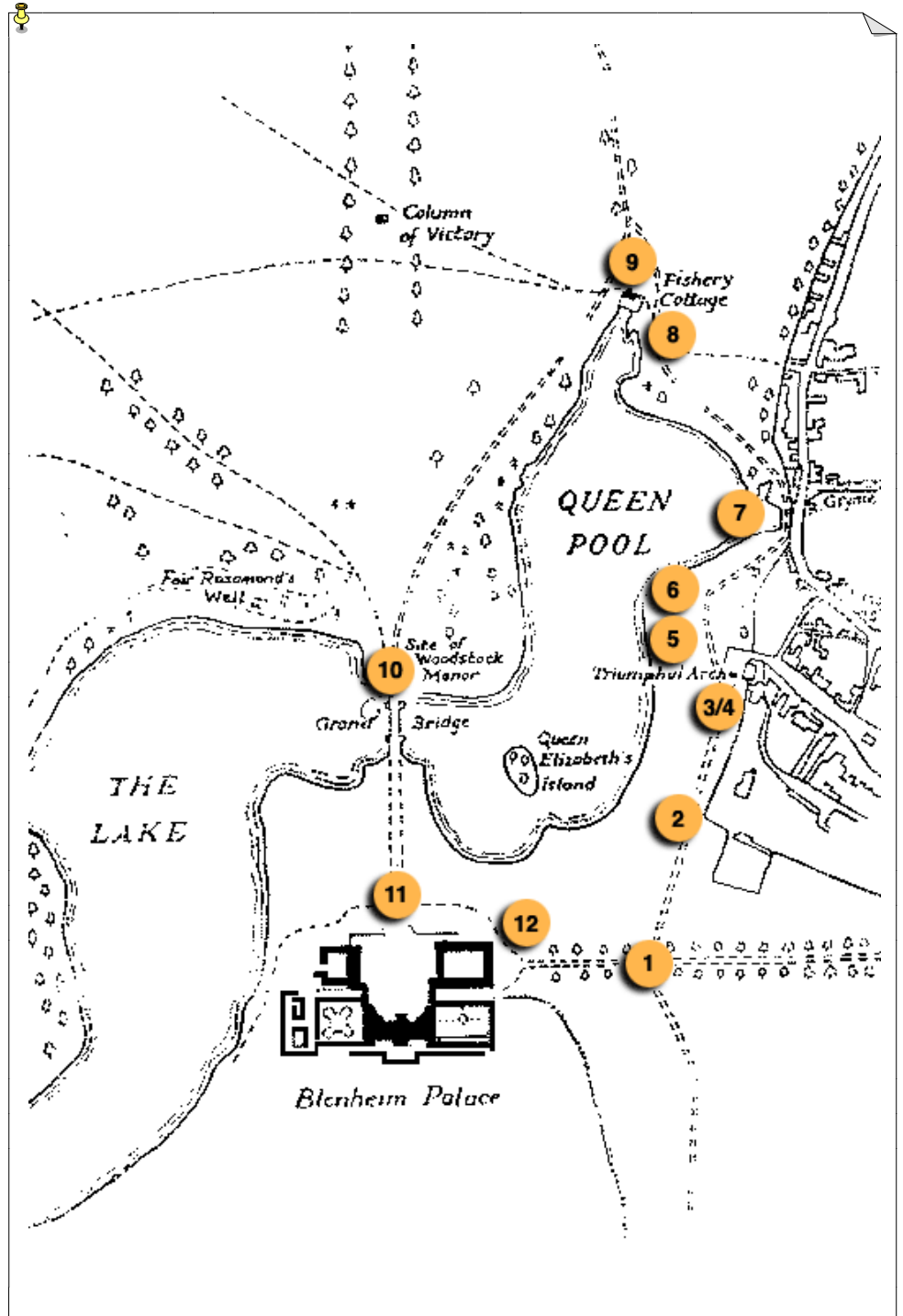
8. The cottage at the road junction (Fishery Cottage).

One hundred years ago, a gamekeeper called Mr Maisey lived in this cottage with his wife and eight children. Here are the details of their ages:-

- Mr Maisey **45** years old.
- Mrs Maisey **43** years old.
- Simon Maisey **20** years old.
- John Maisey **18** years old.
- Joan Maisey **17** years old.
- Peter Maisey **14** years old.
- Mary Maisey **11** years old.
- Elizabeth Maisey **10** years old.
- Robert Maisey **7** years old.
- Paul Maisey **4** years old.



a. What is the total of the ages of all the family?



3. At the Triumphal Gate

- a. Find the date in Roman numerals on the gate arch. Copy it down here.



- b. In Roman numerals:-

M = 1000

D = 500

C = 100

L = 50

X = 10

V = 5

I = 1

Work out the date on the gate in the numbers we use now.

4. Also at the Triumphal Gate

Blenheim is open from 9.00 o'clock in the morning until 5.00 o'clock in the afternoon.

- a. How many hours is Blenheim open?

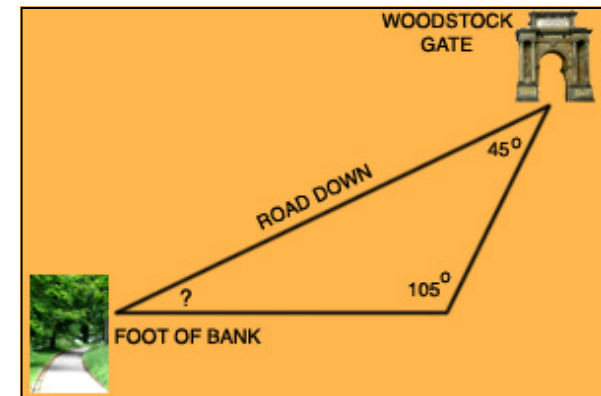
- b. Write these two times using the 24-hour clock.

9.00 am _____ hours 5.00pm _____

5. On the grass bank by the Triumphal Gate

The diagram below shows how steep this bank is (not to scale). Calculate the missing angle '?'

Remember that the angles of a triangle add up to 180 degrees.



6. Look across the Lake at the Grand Bridge.

- a. Estimate the span (length) of the main arch at water level. Circle the correct answer below.

A 22m

B 33m

C 100m

