

# Olympic 2012 Cycling Functional Maths

Name \_\_\_\_\_ Date \_\_\_\_\_



Olympic Games 27 July -12 Aug 2012  
Paralympic Games 29 Aug -9 Sept 2012

## E2-E3 Functional Maths



Name the clock.

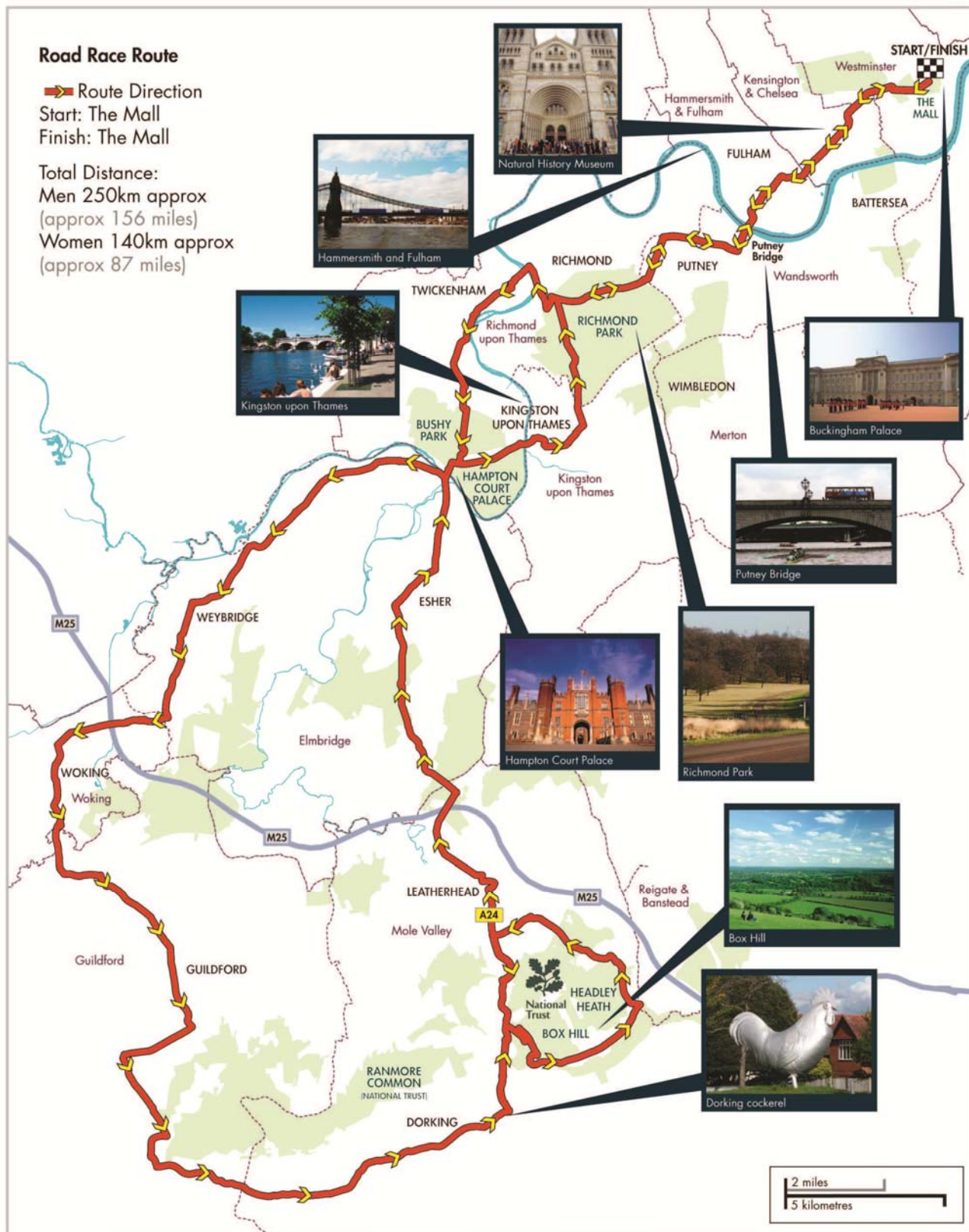
What shapes can you see in this picture?

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Use the cycling route map to answer the questions on page 3.

## Olympic Cycling Road Race



Source: <http://www.london2012.com/documents/venue-documents/cycling-road-race-route.pdf>

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Name \_\_\_\_\_ Date \_\_\_\_\_

## Use the cycling route map to answer questions 1-6.

1. What is the distance of the men's race in kilometres?

\_\_\_\_\_

2. What is the distance of the women's race in kilometres?

\_\_\_\_\_

3. What is the difference in kilometres between the distances of the men's race and the women's race? Show your working out in the box below.

4. What is the name of the palace where the race starts?

\_\_\_\_\_

5. After Weybridge, where does the race go through next?

\_\_\_\_\_

6. What motorway does the race pass over?

\_\_\_\_\_

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Name \_\_\_\_\_ Date \_\_\_\_\_

Look at the programme for the dates and times of the road cycle event.

Cycling (road race) programme									
Venue: The Mall									
Stations: Victoria ,St James's Park, Charing Cross, Piccadilly Circus, Green Park.									
Date	Session time	Session description	Session code	A	B	C	D	E	Ticket Limit
Men's Event 28 July	10.00 – 16.15	Road race victory ceremony	CR001	£60	£40	£20	-	-	10
Women's Event 29 July	12.00 – 16.15	Road race victory ceremony	CR002	£60	£40	£20	-	-	10

The Road Cycling events are free events. You can apply for tickets to some viewing areas for the Road Race, as indicated above.  
Price category 'A' is a seated area, while price categories B and C are standing areas.

July 2012						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

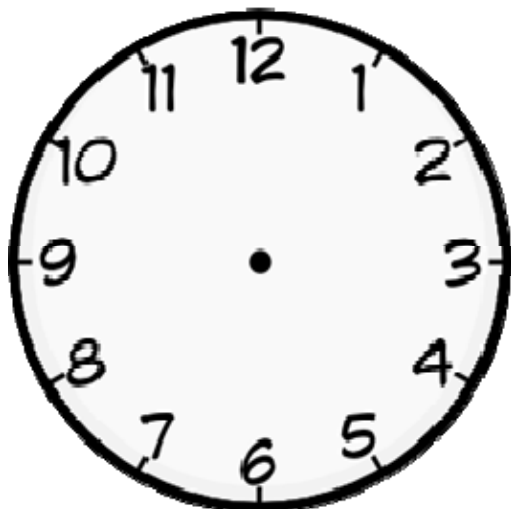
August 2012						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- On the calendar circle the date of the men's race in blue.
- What day of the week is this? \_\_\_\_\_
- Write the date of the men's cycle event. \_\_\_\_\_
- Think of another way to write the above date. \_\_\_\_\_
- On the calendar, circle the date of the women's cycle race in red.
- What day of the week is this? \_\_\_\_\_

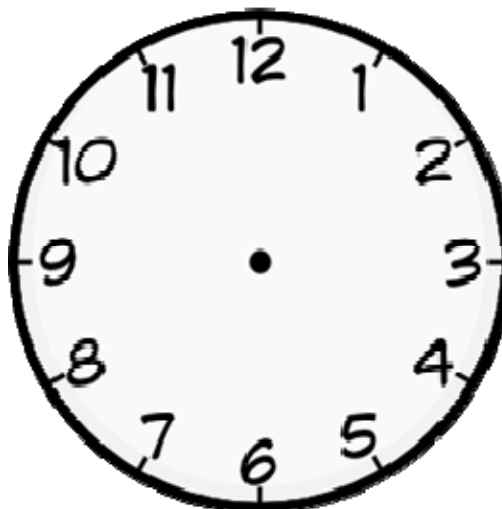
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Name \_\_\_\_\_ Date \_\_\_\_\_

START



FINISH



13. Put the start time of the session for the men's victory ceremony on the clock.

14. Put the finish time on the second clock.

15. How long is the men's victory session? \_\_\_\_\_

16. What is the start and finish time for the women' victory ceremony?

**Start:** \_\_\_\_\_

**Finish:** \_\_\_\_\_

17. How long is the session? \_\_\_\_\_

18. How much longer is the men's session compared to the women's session?

Show your working out in the box below.



# Olympic 2012 Cycling Functional Maths

## Curriculum mapping and answers



### Functional Skills Mathematics mapping

Coverage and range statements provide an indication of the type of mathematical content candidates are expected to apply in functional contexts. Relevant content can also be drawn from equivalent National Curriculum levels and the Adult Numeracy standards.

*Highlighting and ✓ indicates the main coverage and range skills covered in this resource, although these will vary with the student group and how the resource is used by the teacher.*

#### Entry Level 2

- |  |   |
|--|---|
| a) understand and use whole numbers with up to two significant figures ✓ | e) recognise sequences of numbers, including odd and even numbers |
| b) understand and use addition/subtraction in practical situations ✓     | f) use simple scales and measure to the nearest labelled division |
| c) use doubling and halving in practical situations                      | g) know properties of simple 2D and 3D shapes ✓                   |
| d) recognise and use familiar measures, including time and money ✓       | h) extract information from simple lists ✓                        |

#### Entry Level 3

- |   |   |
|---|---|
| a) add and subtract using three-digit numbers   | g) recognise and describe number patterns   |
| b) solve practical problems involving multiplication and division by 2, 3, 4, 5, 10   | h) complete simple calculations involving money and measures ✓                                |
| c) round to the nearest 10 or 100   | i) recognise and name simple 2D and 3D shapes and their properties .                          |
| d) understand and use simple fractions  | j) use metric units in everyday situations  |
| e) understand, estimate, measure and compare length, capacity, weight and temperature | k) extract, use and compare information from lists, tables, simple charts and simple graphs ✓ |
| f) understand decimals to two decimal places in practical contexts                    |   |

**References:** Ofqual (2009), *Functional Skills criteria for Mathematics: Entry 1, Entry 2, Entry 3, level 1 and level 2*. <http://www.ofqual.gov.uk/files/2009-11-functional-skills-criteria-for-mathematics.pdf>

This resource also covers many **adult numeracy curriculum**

<http://www.excellencegateway.org.uk/sflcurriculum> elements. For related resources and further curriculum links please visit the download page for this resource at [www.skillsworkshop.org](http://www.skillsworkshop.org)

### Answers

- 250 km
- 140 km
- $250 - 140 = 110$  km
- Buckingham Palace
- Woking
- M25
- 28 July circled correctly
- Saturday
- 28/07/2012
- 28th July 2012 (other answers are possible)
- 29 July circled correctly
- Sunday
- 10 o'clock shown correctly
- 4.15 shown correctly
- 6 hrs and 15 minutes ( $6\frac{1}{4}$  hrs)
- Start: 12.00. Finish 16:15
- 4 hrs and 15 minutes ( $4\frac{1}{4}$  hrs)
- 2 hrs longer (appropriate working out/counting on shown correctly)