

Start at Ice Blast

1. Ice Blast is 65 metres high. Stephen travelled 70km on the school bus, then walked 900m round the park and went up and down on Ice Blast 3 times. What total distance did he cover in metres?
2. If there are 112 support bars on Ice Blast and they are 0.6 metres long, what is the total length?

Continue to the Flying Machines

3. The rides has 10 rockets capable of hold 8 passengers. If the ride was full, and there were 3 children for every 7 adults, how many children are on the ride?
4. Riders on the Flying Machines spend 80% of their ride in the air. Express this as a fraction.

Head towards Valhalla

5. If the ride around Valhalla is 600 metres long, what is $\frac{1}{5}$ of the length?

Continue to the Derby Racer

6. The Derby Racer is contained inside a circle, with a radius of 8 metres. What is the circumference?
7. Assume the Derby Racer has 20 horses. They are 3 different colours: 2 red, 6 blue and 12 yellow. What is the probability, as a decimal number, of not sitting on a yellow horse?
8. Assume a map of the park has a scale of 1cm to 100m. If it is 8cm from the Derby Racers to The Big Pizza Kitchen, 22.5cm from the Big Pizza Kitchen to The Big One and 14cm from The Big One to the Big Blue Hotel, what is the total distance in metres?

Continue to ICON, our newest ride and also the most expensive ever built at the park, costing £16.25m.

9. Express 16,250,000 in standard form

Head to The Big One

10. If $\frac{1}{3}$ of the length on a leg of The Big One is 5 metres, what is the whole length?

11. Assume the ride is 1800m long, and takes 3 minutes. How far will the ride have travelled in an hour if it runs continuously? Write your answer in metres.

12. This triangle shows a support strut on The Big One. Angle ABC is a right angle. $AB = 4\text{m}$, and $BC = 8\text{m}$. What is the area of the triangle? (Not to scale)



Head to the River Caves

13. If, when it is 80% full, the River Caves hold 8000 litres of water, how much water will it hold when full?

14. The River Caves sprays 60 litres of water on each ride. If there are 50 rides in a day, how many litres will have been used after 50% of the rides?

Head to the Dodgems

15. Assume the Dodgem track is a rectangle, with side A measuring 9 metres and side B measuring 5 metres.

- a. What is the perimeter? b. What is the total area?

16. If there are 14 white-knuckle rides, and a student goes on 8 of them, what is this figure as a percentage?

17. If 6 hotdogs cost £10.50, what is the cost of 14 hotdogs?

18. If 3 hamburgers and 4 portions of chips cost £16 and 5 portions of chips and 1 hamburger cost £9, what is the price of a portion of chips and what is the price of a hamburger?

19. In the Hot Ice merchandise sale, an item, after a reduction of 20%, is £40. What was the price before it went in the sale?

20. The "Kiss Me Quick" Shop is offering 3 for the price of 2 on selected items. If one item costs £3.50, what is the price for 9 items