

Key Stage 3 Maths Trail Answers

1. (with prices at time of writing)

a) A family ticket would be cheaper (a family ticket @ £19.80 including only 3 children + 1 additional child @ £4.72 = £24.52 / 1 adult @ £6.75 + 4 children @ £4.72 = £25.63)

b) £1.11 (£25.63 - £24.52)

2. Saturday (knowledge of 7 times table and number of days in month)

3. a) & b) Depends (on time of year, time of day, outside weather etc.)

4. South

5. 254 (4 rows of 18 long bricks + 4 rows of 34 short bricks + 46 in top row)

6. 14 (9 individual rhombi + 1 whole rhombi + 4 rhombi containing 4 individual rhombi)

7. Depends (includes triangles, squares, rectangles etc.)

8. Current year minus 1892 (flowed for 90 years and then from 1982 to now)

9. 60 (2 panels of 4x4 + 1 panel of 7x4)

10. Octagon

11. a) 62.5 (or 63 full panels): $75 \text{ m} \div 1.2 \text{ m}$

b) £1,055.25 (63 panels needed x £16.75)

12. 38.8 g per bird: $((28 \text{ kg})28,000 \text{ g} \div 103 \text{ birds}) \div 7 \text{ days}$

13. 32.97 days (2 d.p.): $((30 \text{ m})3,000 \text{ cm} \div 91 \text{ cm})$

(as tall as a 9-storey building in just over a month!)