

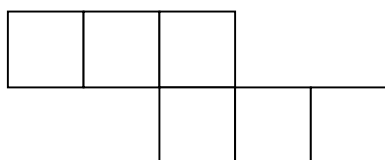


UKMT Team Maths Challenge 2003/04

Round One Relay Race

Section A

- A1. January 1st 2004 was a Thursday. How many Fridays are there in 2004?
- A2. What is the value of 2 to the power of 8 minus 8 to the power of 2?
- A3. Who am I? I am a 2-digit number. The sum of my digits is less than 5. I lie immediately between two primes. I am not 12.
- A4.



Mark the edge which touches edge A when this net is folded to make a cube

- A5. Snicks have 4 legs and snorks have 7 legs. How many snicks would there have to be in a group of snicks and snorks if there are 45 legs altogether?

Section B

- B1. What is the smallest number of coins needed to pay 68p?
- B2. What is the missing digit a in $102 \times 103 \times 104 \times 105 = 1147255a0$?
- B3. What is $1/4$ of $1/5$ as a decimal?
- B4. What is the closest whole number to $\sqrt{1000}$?
- B5. I divided one whole number by another. Each of them was less than 20. The answer on my calculator was 0.307692307. What were the two numbers?



UKMT Team Maths Challenge 2003/04
Round One Relay Race

Answers

A1 53

B1 5

A2 192

B2 2

A3 30

B3 0.05

A4 Top middle edge

B4 32

A5 6

B5 4, 13