

SAMPLE QUESTIONS FOR MATHEMATICS COMPETITION

AGE CATEGORY: FAIRY BEE (12-13 Years old)

Question 1

(2 marks)

(2 marks)

Which of these is equal to one million millimetres?

- a) 1 metre
- b) 10 metres
- c) 100 metres
- d) 1 kilometres

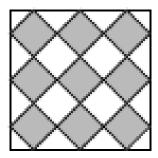
Question 2	(3 marks)
The difference between $\frac{1}{3}$ of a number and $\frac{1}{4}$ of the same number is 4	4. What is that number?
a) 48	
b) 36	
c) 24	
d) 12	

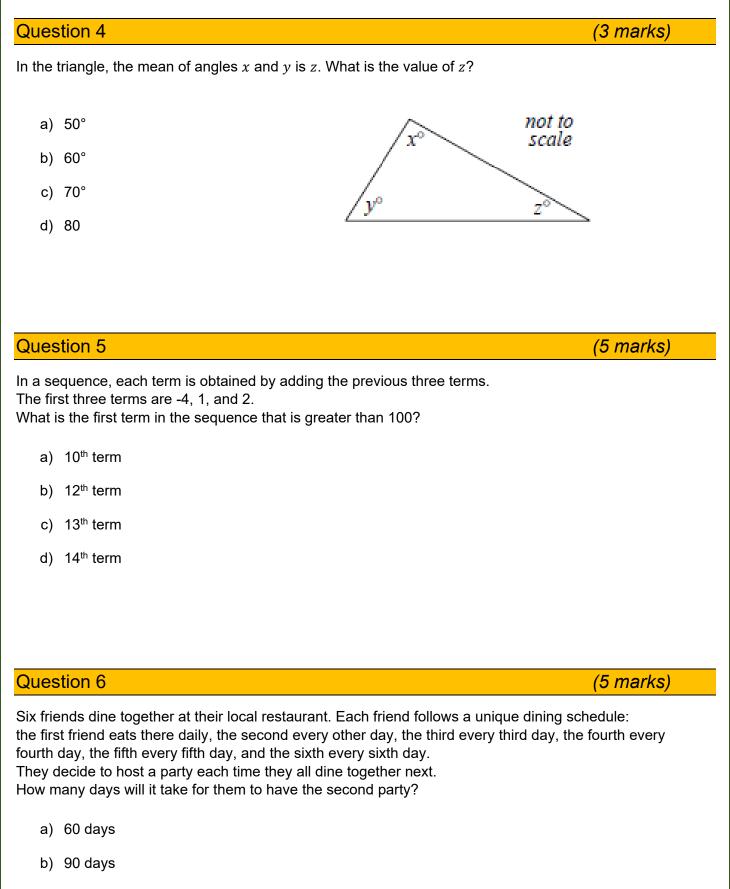
Question 3

In the diagram, the small squares are all the same size.

What fraction of the large square is shaded?

- a) $\frac{9}{20}$ b) $\frac{9}{16}$
- c) $\frac{3}{7}$
- d) $\frac{1}{2}$





- c) 120 days
- d) 240 days

Question 7

(3 marks)

(5 marks)

Sarah will be 101 years old tomorrow. In Sarah's lifetime, how many times has her age in years changed from a square number to a prime number?

- a) 5
- b) 4
- c) 3
- d) 2

d) 20 cm

Question 9	

What is the value of A + B + C?

a) 13			Α	В	Α	В	
b) 14		×		С	С	С	
c) 15	6	3	9	0	2	7	
d) 16							

Question 10(5 marks)The points P, Q, R and S lie in order along a straight line, with $PQ = QR = RS = 4 \ cm. PQ, QR, RS$ and
SP join to make the shape shown below.What, in cm^2 , is the area of the shape?a) 6π $\theta\pi$ b) 8π Pc) 10π 16π d) 16π $C \ marks$

When I have walked 10% of the way to school, I have 1800 metres more to walk than when I have 10% of the walk remaining.

How far, in metres, is it from my home to my school?

- a) 1225
- b) 1250
- c) 2250
- d) 2275

Question 12

(2 marks)

What is the value of $1 - 4 \times 5 + 2 \div 5$?

- a) -18.6
- b) -2.6
- c) -15
- d) -10