

# Magdalen College School Oxford: 11+ Maths Paper 2011



**School:** Magdalen College School

**Subject:** Maths

**Level:** 11+

**Time:** 50 mins

**Type:** Test Paper

**Year in use:** 2011

Q	Answer	Solution
1.	(a) 108 (b) 44 (c) 1436 (d) 489 (e) 8	



2. (a) 94  
(b) 58  
(c) Number of spiders   2    
Number of flies   3
- 

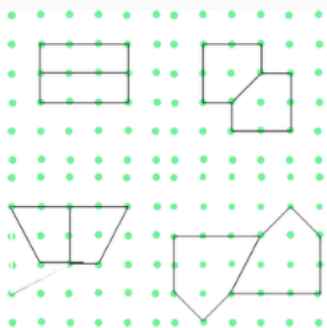
3. (a) 56  
(b) 2052  
(c) 756  
(d) 54  
(e) 13
- 

4. (a) 4851  
(b) 12177  
(c) 3168
- 

5. (a) 85 p  
(b) 7 pencils  
(c) 10
- 

6. 24 cm<sup>2</sup>

7.



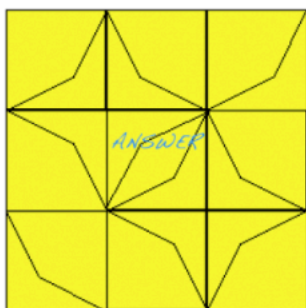
(Multiple answers possible)

8.

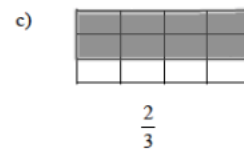
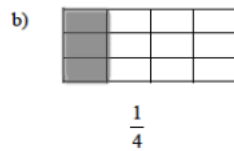
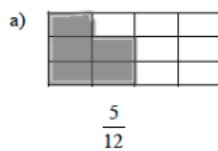
Answer : 75% of 80p

Reason : I have more money

9.



10.





11.

Fraction	Decimal	Percentage
$\frac{1}{10}$	0.1	10%
$\frac{1}{4}$	0.25	25%
$\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	75%

12.

72 cm

13.

(a) 51 , 63

Rule: Times 3 to a number sequence (starting from 1) by adding 4 to the previous number in the sequence each time.

(b) 48 , 96

Rule: Times 3 to a number sequence (starting from 1) by doubling the previous number in the sequence each time.

(c) 7 , 3

Rule: Take 4 from the sequence each time.

(d) 20 , 26

Rule: Increase 1 to the difference of the previous pair, and add the sum to the previous number.



14. (i)  $90^\circ$  ,  $135^\circ$  ,  $60^\circ$   
(ii) Obtuse

15. 60

16. 5:55 am

17. (a) B , E  
(b) D , E  
(c) 30

18. Red : Dogs  
Blue : Gerbils  
Yellow : Fish  
Green : Parrot  
Purple : Cat  
Orange : Hampsters

19.

$$A = 4$$

$$B = 2$$

$$C = 0$$

$$D = 1$$

$$E = 3$$

