

Oundle School: 11+ Maths Paper 2013



School: Oundle School

Subject: Maths

Level: 11+

Time: 60 mins

Type: Past Test Paper

Year in use: 2013

Section A

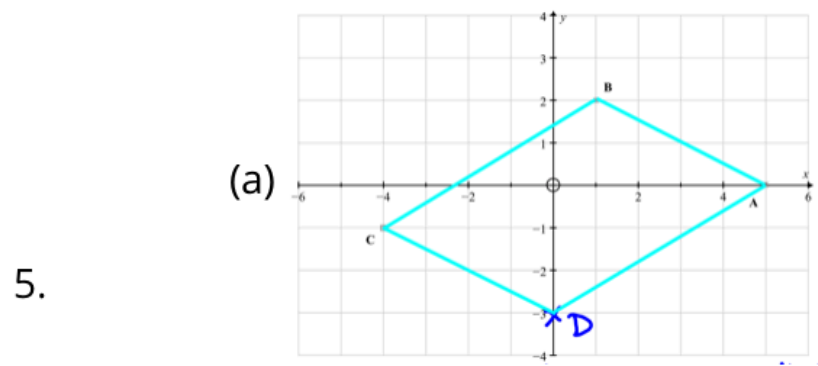
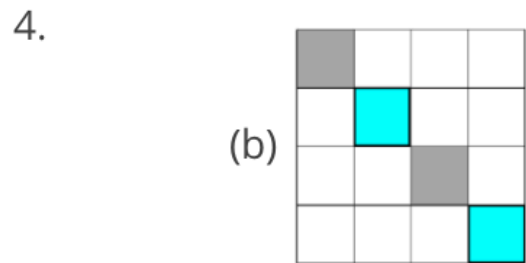
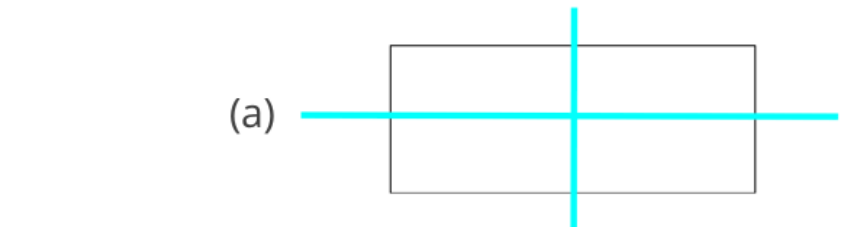
Q

Answer

Solution

1. (a) 101
(b) 2114
(c) 1014
(d) 96
(e) 24
(f) 4752
2. 700,058,024

3. (a) 17
 (b) 27
 (c) (i) 17 (ii) Based on the BODMAS rule, multiplications and divisions are computed before additions and subtractions.



A is at (5, 0) ; B is at (1, 2) ; C is at (-4, -1)

(b) (See diagram)

(c) Parallelogram

6. (a) 19, 23
 (b) -3.7, -6.6
 (c) 25, 36

7.

Questions	Answers
$\frac{307 \times 42}{592}$	12437.24076
$(11.13)^2(23.7 + 76.7)$	0.969298245
$(89 + 43)(32 \div 63)$	21.78040541
$\frac{17}{36} \times \frac{39}{19}$	67.04761905

8. (smallest) $^{-3}/_4, ^{-3}/_8, ^3/_10, ^3/_7, ^3/_5$ (largest)

9. (a) 4
 (b) 3
 (c) -10

10. (a) 225
 (b) 45

11. (a) 12
 (b) -14
 (c) 13
 (d) -30



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12. (a) 487,156,070
(b) 32761
(c) 487,156,070
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13. (a) 154.7 m^2
(b) £3867.5
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14. (a) Samsung Galaxy S3
(b) LG Nexus 4
(c) Apple iPhone 5
(d) 130g
-



- (a) 4
- (b) 6
- (c)

15.

	a	b
	0	4
	1	3
	2	2
	3	1
	4	0



Section B

Q	Answer	Solution
1.	45	
2.	(a) $2 \times 2 \times 3 \times 5 \times 5$ (b) 3 (c) 13	
3.	(a) 120 (b) 120 (c) 60	
4.	296	



5.

- (a) (i) 8 ; (ii) 42
- (b) (i) 1101 ; (ii) 11111
- (c) 511
- (d) Add a '0' (zero) to the right hand side of the binary number

6.

- (a) Step 1: Fill up the 3-pint jug and empty its content to the 5-pint jug.
Step 2: Fill up the 3-pint jug again, and empty as much of its content to the 5-pint jug as possible.
Step 3: Since only 2 pints are needed to fill the 5-pint jug and therefore, 1 pint of water is left in the 3-pint jug.
- (b) Step 1: Fill up the 5-pint jug and pour its content to the 3-pint jug.
Pour the 2 pints of water left in the 5-pint jug into the 8-pint jug.
Step 2: Repeat the above step.
Step 4: The 8-pint will now contain 4 pints of water.