Magdalen College School Oxford: 13+ Maths Specimen Paper



School: Magdalen College School

Subject: Maths

Level: 13+

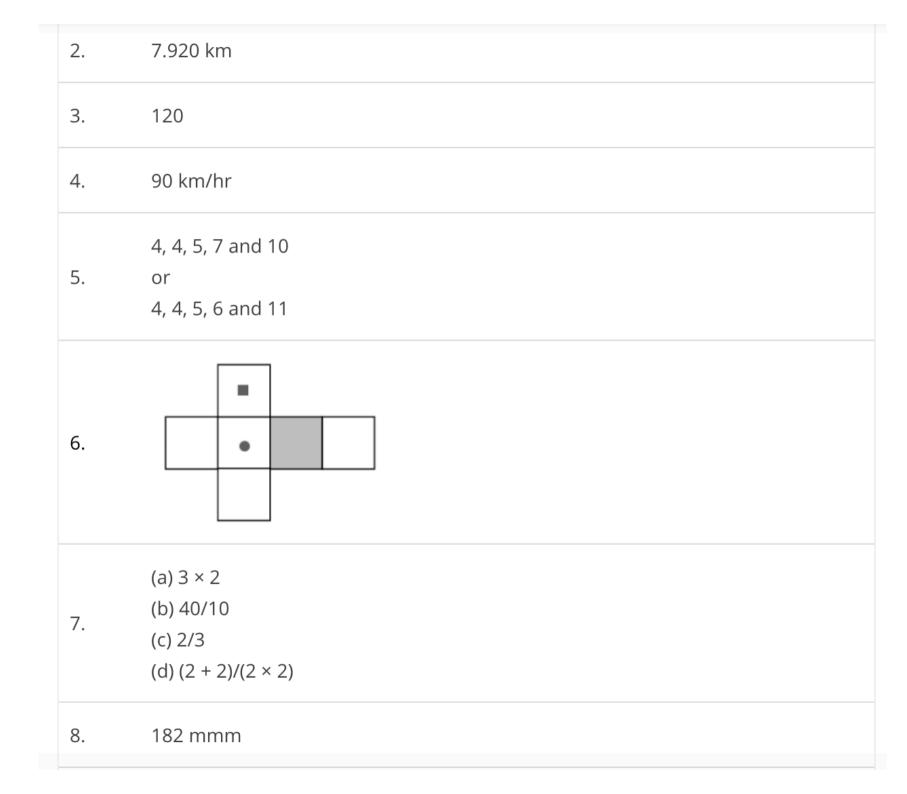
Time: 60 mins

Type: Sample Paper

Year in use: Currently available from Magdalen College

School's website (last checked Oct 2014)

Q \$\Display \text{ Answer \$\Display \text{ Solution \$\Display \text{ Solution \$\Display \text{ Solution \$\Display \text{ Solution \$\Display \text{ (c) 3 \text{ (c) 3 \text{ (d) 7x/12 \text{ (e) kn(5n + k) \text{ (f) 5a - 3 }}}



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(a) 7
          (b) 9
9.
          (c) 16
          (d) 4/3
         78.5 cm<sup>2</sup>
10.
          1003, 1030, 1012, 1021, 1102, 1111, 1120, 1201, 1210,
11.
          1300
         A = 5; B = 6; C = 0; D = 1; E = 7; F = 4; G = 6
12.
         <u>3</u>; H = <u>2</u>
          (a) 20°
13.
          (b) 100°
          (a) 25 yards
        (b) 9 ft 4 in
14.
         (c) 18.7 pints
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| 15. | (a) 5 (b) 6 (c) 1 (d) 4.5 |
|-----|--|
| 16. | (a) mirror(b) rotational(c) 4(d) 16 |
| 17. | (a) 2/3 (b) 3/5 (c) 5/8 The next two answers are: 8/13 and 13/19. |
| 18. | 280 cm ² |
| 19. | (a) 4.5 (b) 5.5 (c) 9 (d) 16 |

(a) Yes

(b) Yes

(c) No

20. Reason: If n = 41, then n^2 will be divisible by 41. Also, n+41 = 2 times 41, which is also divisible by 41. The total of these two numbers will be a multiple of 41, hence it will also be divisible by 41.