

Mathematics – Answers to sample paper for 11–12 year group

1. 7929
2. 3288
3. 13464
4. 1398
5. (a) 11073 (b) 10.47
6. £51
7. £4.72
8. 30
9. £30.17
10. 223 minutes
11. 15
12. 30, 135
13. 140 km
14. 52 km/h
15. (a) largest 0.9 smallest $\frac{1}{100}$ (b) largest $\frac{4}{3}$ smallest $\frac{1}{2}$ (c) largest 0.84 smallest 0.087
16. 2.27 m
17. The one litre bottle cost 72p per litre, whereas the $1\frac{1}{2}$ litre bottle costs 70p per litre. The $1\frac{1}{2}$ litre bottle is better value.

18. (a)

7	5	2	6	3
21	15	6	18	9

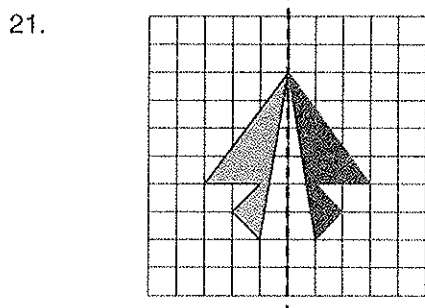
 (b)

5	3	1	7	2
25	9	1	49	4

 (c)

3	11	10	14	5
17	9	10	6	15

19. (a) 66 m^2 (b) 102 m^2 (c) 60 m^2
20. (a) 111.492 (b) 14.67 (c) 146700



22. 16°
23. (a) (4,7) (b) Parallelogram
24. (a) 4 (b) 22 (c) 27
25. (a) False (b) False (c) True
26. (a) B (b) 13.05 or 1.05pm (c) 39 mins
27. (a) 36 (b) 4

28. (a) $5 \times 4 \times 3 \times 2 \times 1$ (b) (i) 120 (ii) 12 (iii) 720 (iv) 720 (v) 20 (vi) 9900 (c) 12