

HSCP Maths Mash-up #5

Solutions

1. 4
2. 101
3. regular hexagon
4. 4 million
5. 1350
6. 64
7. 2
8. 19
9. 60
10. $\frac{1}{2}$ (0.5)
11. 24
12. 12
13. count=4
length= $\sqrt{3}$
14. 13
15. $2^5=32$,
 $5^5=3125$
16. PS= $1+\sqrt{2}$
PR= $\sqrt{(2+\sqrt{2})}$
PT= $\sqrt{(4+2\sqrt{2})}$
17. 25
18. $\frac{1}{945}$ (~ 0.00106)
19. 23
20. $21+2d$