

1.  $\frac{15}{4} + 5\sqrt{3}$

6. 74

2.  $\frac{s}{2}$

7.  $2(3 + \sqrt{5}) = (1 + \sqrt{5})^2$

3. 2

8.  $\sqrt{6} - 2$

4.  $\binom{12}{5} = 792$

9. 2015

5. 108

10. 1034482758620689655172413793 or  $3\frac{10^{28} - 1}{29}$