

Perse Maths – Year 9 Entrance Exam - Specimen Paper 2 – Example Answers

Please note that the school cannot enter into any correspondence regarding these example answers or clarify questions/acceptable solutions further. It is important that full working is shown with solutions because many marks are awarded for that working and in some cases more than one answer will be accepted for some problems.

- 1) a. 995
b. 445
c. 201
d. 34
- 2) a. $7a^2$
b. $6a^4$
c. 6
d. $\frac{1}{a}$
- 3) 0.0833333333
- 4) Lots of possible answers
- 5) 3^0
- 6) 36
- 7) 7
- 8) i. 203.80
ii. 200
- 9) a. 13.2
b. 21
c. 5130
- 10) a. 32
b. $\frac{1}{8}$
- 11) a. $5n + 8$
b. 51
- 12) a. $\frac{7}{12}$
b. $\frac{1}{6}$
c. $\frac{1}{7} + \frac{1}{9}$
- d. $\frac{5}{6}$
- 13) 420
- 14) a. 12
b. 18
c. -26
d. -125
- 15) Gradient = -1, y-intercept = 9
- 16) a. 6
b. base = 3, height = 2
- 17) a. $a(5a - 6)$
b. $5a(a - 2b)$
- 18) 43 years 7 months
3 years 1 month
Stay the same
- 19) 21.5
- 20) a. $18x^3$
b. $x^2 - 2xy - y^2$
- 21) a. D
b. 0.83
- 22) a. 10^{297}
b. 5×10^{601}
- 23) 28
- 24) 50
- 25) 570.6
- 26) 2
- 27) £51