

JANUARY 2018 HIGHER TIER ANSWERS

1 st	6000
2 nd	28%
3 rd	a) $24x^{11}y^7$ b) $\frac{4x^4}{3y^4}$
4 th	8cm^2
5 th	a) 4 toys 3 hats b) 48
6 th /7 th	a) £1 just for using taxi b) every mile = £3 c) $y = 3x + 1$
8 th	$r = \frac{5-7p}{3p+2}$
9 th	a) 105 b) $16x^2 - 24x + 11$ c) 123
10 th	a) 20% b) 9820
11 th	translation $\begin{pmatrix} -3 \\ -4 \end{pmatrix}$
12 th	$\frac{221}{495}$
13 th /14 th	a) 10km b) 4pm
15 th	225000
16 th	90m^2
17 th	$0.25n^2 + 5$ 2505
18 th	23mh
20 th /21 st	A-S B-R C-P D-Q
22 nd	$\frac{123}{56}$
23 rd	20 white 25 black
24 th	52°
25 th	a) $\frac{1}{25}$ b) $\frac{8}{27}$
26 th	$\frac{3}{10}$
27 th /28 th	a) should end in +6 not -6
29 th	7.5 days
30 th	3m
31 st	$r = \sqrt[3]{\frac{729}{4}}x$