

MATH FIELD DAY 2017
Answer Sheet

MAD HATTER B

Simplify all answers

Name Key School _____ Number Correct _____

WARM-UP QUESTIONS			
(i) _____	(ii) _____	(iii) _____	(iv) _____

- 1 $3(x+2)^2(x+3)^2(2x+5)^2$ 11 _____ 9 21 _____ 4 31 90 or $\frac{\pi}{2}$
- 2 $\frac{1}{5}$ 12 (5, 8) 22 42857 32 $-\frac{3}{7}$
- 3 $\frac{5\pi}{8}$ 13 $\frac{2\sqrt{3}}{9}$ or $\frac{2}{3\sqrt{3}}$ 23 $\frac{2\sqrt{2}}{3}$ or $\frac{4}{3\sqrt{2}}$ 33 9
- 4 _____ 9 14 -2016 24 _____ 2 34 13,500
- 5 $\frac{3}{11}$ 15 0 25 _____ 8 35 6
- ò _____ ò _____ ò _____ ò _____
- 6 36 16 210 26 $\frac{49}{40}$ 36 60
- 7 7 17 $\frac{15}{2}$ or 7.5 27 _____ 2 37 $\frac{1}{16}$
- 8 4 18 _____ 5 28 _____ 46 38 18
- 9 1 19 _____ 4 29 _____ (c) 39 -3
- 10 36 20 271 30 _____ 4 40 1

