

## MATHEMATICS ENRICHMENT CLUB.<sup>1</sup> Solution Sheet 1, April 30, 2012

## **Answers**



2. 1=4 and 1=64 full.

3. 4.

4.easy

5.iii)  $n = p^4q^2$ , p; q distinct primes will do.

6.

7.

8. 39,690km, which is less than 2% di erent from the actual circumference of the earth.

<sup>&</sup>lt;sup>1</sup>Some of the problems here come from T. Gagen, Uni. of Syd. and from E. Szekeres , Macquarie Uni.

## Senior Questions.

1.