

Answers

1. $k=62$
2. 416723
3. D
4. D3
5. 2pm
6. Part 1 = $19/59$, part 2 = $800/3422$
7. 617
8. $8x^2(\pi - 2)$
9. Put 1 weight from stack 1, 2 weights from stack 2 and so on, onto the weighing scale. You know how much this should weigh. The number of kilograms heavier than expected that the scale shows corresponds to the stack – e.g if the scale is 4kg heavier than you expect, stack 4 is faulty.