

NOVEMBER ANSWERS – HIGHER TIER

1st: Median group $20 < h \leq 30$ Mean 25.2cm

2nd: 120cm^2

3rd: (a) Roots -4 and 1 (b) $f(0) = -4$

4th: Surface area = 334.1cm^2

6th: $7^2/23$

7th: $z = 60^\circ$

8th: 78°

9th: Perimeter = 37.85cm Area = 58.9cm^2

10th: $207/320$

11th: $75\pi\text{cm}^2$

13th: 0.8kg

14th: 6.19cm

15th: $\pm 3/4$

16th: (a) 4% (b) $\pounds 150\,000$

17th: 4.5375

18th: $11\text{m}11\text{s}$

20th: 24 sides

22nd: $1052/495$

23rd: 47°

24th: ± 4

25th: 208.9mins

27th: $1.21\text{g}/\text{cm}^3$

28th: $(2.5, 10)$ $(-3, -1)$

29th: $a = 3, b = -2, c = 1, d = -2$

30th: 49.7°