Exercise 5.1	Normal Distribution =
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Exercise 5.4 1 40 2 10.73 3 (i) 8.31 4 (i) 35.5 5 1.75m 6 2.74 kg. 2.78 kg 7 52.73, 11.96	Exercise 5.2 1 () 0.0668 2 () 0.7190 (b) 0.0548 4 () 0.0166 5 () 0.3015 6 (a) () 0.8413 (b) 207 (7 0.0003844 8 () 0.6554 9 () 0.1056 10 Size 1: 0.159, Size 11 0.8664 12 () 2 (b) 47	1 () 0.8089 (ii) 0.1911 2 () 0.0089 (iii) 0.9931 (v) 0.0049 (vii) 0.9886 (ix) 0.0312 (xi) 0.9803 3 () 0.05 (iii) 0.099 ≈ 0.1 (v) 0.095 (vii) 0.0025
(ii) 35.9% (ii) 0.0907	\$e 5.2 (i) 0.0668 (ii) 0.4013 (iii) 0.1747 (ii) 0.07190 (ii) 0.0618 (iii) 0.4621 (iv) 0.0548 (ii) 0.1448 (iii) 0.9557 (i) 0.3015 (ii) 0.5231 (iii) 0.3792 (a) (i) 0.8413 (ii) 0.9257 (b) 207 (ii) 0.6554 (ii) 0.1171 (iii) $8.2 \approx 8$ (i) 0.1565 (ii) 0.7734 (iii) 0.6678 Size 1: 0.159, Size 2: 0.775, Size 3: 0.067 (iv) 47 (iii) 124	(II) 0.8089 (Iv) 0.1911 (II) 0.2578 (Iv) 0.9131 (Iv) 0.9911 (IVI) 0.2343 (X) 0.9484 (XII) 0.0021 (II) 0.05 (IV) 0.025 (IV) 0.025 (IV) 0.075
8 (0 6.99,0.105 9 39.5,5.32 10 (0) 0.321 11 0.203 12 (0) 92.7% (ii) 1.32 13 5.102g 14 (1) 58.79,3.304 15 3040 km 16 (0) 828.45 g 17 (0) 0.507 18 535.1 g, 12.22 g 19 (0) 109 km/h 20 (1) 0.9332	Exercise 5.3 1 (i) 73.85 (iii) 190.742 2 (ii) 176.578 3 (i) 625.6 g 4 (i) (384.32, 415.68) 5 (i) 0.383 6 (125.5 h, 194.5 h) 7 (i) 0.4839	4 () 0.044 (ii) (iii) 0.3023 (iv) 5 () 0.1703 (ii) (iii) 0.3639 (iv) (v) 0.4798 (vi) (vi) 0.0337 (viii) (ix) 0.2729 (x) 6 () 0.925 (ii) 7 49.98% ≈ 50% (ii) 9 () 0.55 (ii) 9 () 0.9 (ii)
(ii) 0.0105 (ii) 14.25 (iii) 1.7% (ii) 4.46 (i) 0.615 g (i) 0.00258 (ii) 0.428 (i) 0.428	(i) 4.65 (iv) 1.468 (ii) 167.723 (ii) 567.1 g (ii) 10.784 (ii) 96.74 (ii) 96.92, 103.08) 0.8185) 0.1336) 0.1336) 0.5481) 0.4582) 0.9082) 0.9082) 0.0306) 0.9

0.1958 (ii) (a) $5.5.5.89$ (ii) $np = 9.5 > 5, nq = 15.5 > 5$ (iii) (a) 0.4932 (b) 0.0968 (c) 0.1082 (d) 0.6598 (l) 0.0154 (li) 0.8145 (lii) 0.02 0.1174 (i) 0.6318 (b) 0.8345 (lii) 0.02 0.1171 (i) 0.9474 (li) 0.6325 (lii) 0.5914 (lv) 0.0111 (lo) 0.6325 (lii) 0.484 (lo) 0.02204 (b) 0.9922 (lii) 0.484 (lo) 0.02204 (b) 0.9222 (li) 0.8531 (li) 0.1838 (lii) 0.1838 (lii) 0.81% (l) 0.0829 (li) 0.2749 (l) 0.00361 (lii) 0.8174 (l) 0.00361 (lii) 0.556 0.8871 (li) 0.03695 (li) 0.03695 (lii) 0.0542 (lii) 0.122 (li) 0.2295 (li) 0.0542 (lii) 0.112 (li) 0.2395 (li) 0.0395 (lii) 0.0395 (liii) 0.0395 (liii) 0.0395 (liii) 0.0395 (liii) 0.0395
5, nq = 15.5 > 5 (iii) 0.02 (iii) 0.5914 (iii) 0.484 (iii) 0.81% (iii) 0.81% (iii) 0.112 (iii) 0.112
0.02 0.02 0.5914 0.484 0.484 0.81% 0.81% 0.0556