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**Part 3.4 Answers**

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1a. 0.167 (3sf)

1b. 0.5

1c. 0.0833 (3sf)

2a. We only have two pieces of information, the maximum weight (b) is 3kg, and the minimum weight (a) would be 0kg. Therefore a uniform distribution is best.

2b. 0.0333 (3sf)

2c. 0.6

3a. We only have two pieces of information, the maximum time (b) is 8 seconds, and the minimum time (a) would be 6 seconds. Therefore a uniform distribution is best.

3b. 0.2

3c. 0

4a. We only have two pieces of information, the maximum amount (b) is \$90, and the minimum amount (a) would be \$40. Therefore a uniform distribution is best.

4b. 0.4

4c. \$42.50 and \$87.50

5a. We only have two pieces of information, the maximum time (b) is 10 hours and 40 minutes, and the minimum time (a) would be 10 hours and 30 minutes. Therefore a uniform distribution is best.

5b. 1

5c. 0

6a. We only have two pieces of information, the maximum amount (b) is 2.1L, and the minimum amount (a) would be 1L. Therefore a uniform distribution is best.

6b. 0.0909 (3sf)

6c. 1.055 and 2.045L

7a. We only have two pieces of information, the maximum diagonal measurement (b) is 102.1, and the diagonal measurement (a) would be 101.2. Therefore a uniform distribution is best.

7b. 0.556 (3sf)

7c. 101.29cm