

Error Interval Answers

Workout

Question 1: $7.5g \leq mass < 8.5g$

Question 2: $850km \leq distance < 950km$

Question 3: $15 \leq y < 25$

Question 4: $4.5 \leq y < 5.5$

Question 5: $6.35 \leq y < 6.45$

Question 6: $99.5 \leq y < 100.5$

Question 7: $1.25 \leq n < 1.35$

Question 8: $6.265 \leq n < 6.275$

Question 9: $56.15kg \leq m < 56.25kg$

Question 10: $20.5 \leq x < 21.5$

Question 11: $14500 \leq y < 15500$

Question 12: $679500 \leq y < 680500$

Question 13: $2.8 \text{ cm} \leq l < 2.9 \text{ cm}$

Question 14: $0.37 \leq y < 0.38$

Question 15: $18.1 \leq n < 18.2$

Question 16: $4.066 \leq n < 4.067$

Apply

Question 1: $27.9 \text{ cm} \leq perimeter < 28.5 \text{ cm}$

Question 2: Grace $8.5 \text{ min} \leq \text{time} < 9.5 \text{ min}$
George $10.5 \text{ min} \leq \text{time} < 11.5 \text{ min}$
Total $19 \text{ min} \leq \text{time} < 21 \text{ min}$

So the total time could be 20 minutes 50 seconds.

Question 3: $5.57142... \text{ m/s} < \text{speed} < 8.2 \text{ m/s}$

Question 4: The correct answer should be $1.92 \leq x < 1.93$

Matthew has assumed the number was rounded and not **truncated**

Question 5: The correct answer should be $7495 \leq n < 7505$

- 1) Norris has thought the number was rounded to 2 significant figures
- 2) Norris has used x instead of n
- 3) Norris has used the incorrect inequality symbol, the first one should be \leq