



Name: _____



1) Write down the error interval for x , where x has been rounded to the nearest integer

a) $x = 4$

$3.5 \leq x < 4.5$

c) $x = 36$

$35.5 \leq x < 36.5$

b) $x = 16$

$15.5 \leq x < 16.5$

d) $x = 84$

$83.5 \leq x < 84.5$

2) Write down the error interval for x , where x has been rounded to 1 decimal place.

a) $x = 3.6$

$3.55 \leq x < 3.65$

c) $x = 9.3$

$9.25 \leq x < 9.35$

b) $x = 4.9$

$4.85 \leq x < 4.95$

d) $x = 8.0$

$7.95 \leq x < 8.05$

3) Write down the error interval for x , where x has been rounded to 1 significant figure.

a) $x = 50$

$45 \leq x < 55$

c) $x = 0.03$

$0.025 \leq x < 0.035$

b) $x = 700$

$650 \leq x < 750$

d) $x = 0.005$

$0.0045 \leq x < 0.0055$

4) Write down the error interval for x , where x has been rounded to 2 significant figures.

a) $x = 58$

$57.5 \leq x < 58.5$

c) $x = 0.46$

$0.455 \leq x < 0.465$

5) Truncate the following numbers to the nearest integer:

a) 2.746

2

c) 7.007

7

e) 7.9993

7

b) 5.247

5

d) 0.863

0

f) 12.4673

12

6) Truncate the following numbers to one decimal place:

a) 6.2478

6.2

b) 92.7745

92.7

c) 48.0248

48.0

7) Truncate the following numbers to 1 significant figure:

a) 784.2

700

b) 0.0642

0.06

c) 0.0492

0.04

8) Truncate the following numbers to 2 significant figures:

a) 392.67

390

b) 94.763

94

c) 0.05293

0.052

9) Write down the error interval for x , where x has been **truncated** to the nearest integer

a) $x = 4$

$4 \leq x < 5$

c) $x = 84$

$84 \leq x < 85$

b) $x = 8$

$8 \leq x < 9$

d) $x = 36$

$36 \leq x < 37$

Write down the error interval for x , where x has been **truncated** to 1 decimal place.

a) $x = 3.8$

$3.8 \leq x < 3.9$

b) $x = 9.1$

$9.1 \leq x < 9.2$

Exam question

Two men have their heights measured, but the results have been rounded to 1 decimal place. Their heights are given as 1.7m and 1.8m.

a) Write two error intervals for the height of the two men.

$1.65 \leq x < 1.75$ $1.75 \leq x < 1.85$

b) Hence determine the maximum difference in the heights of the two men

0.2m

