

## 1:09 | Approximation

Name: \_\_\_\_\_

Class: \_\_\_\_\_

**Examples**

1 Write 95 463.5 correct to the nearest:

a hundred

b ten

c integer

*Solution*

a 4 is in hundreds place.

b 6 is in tens place.

c 3 is in integer place.

Next digit is 6

Next digit is 3

Next digit is 5.

(which is 5 or more).

(which is less than 5).

 $\therefore$  Round up the 3 to 4. $\therefore$  Round up the 4 to 5. $\therefore$  Leave the 6. $\therefore$  95 464 $\therefore$  95 500 $\therefore$  95 460OR a Think 'Which hundred is 463.5 closest to?'  $\rightarrow$  500 $\therefore$  95 500

2 Round off 8.738 to:

a 1 decimal place

b 2 decimal places

*Solution*

a 7 is in first decimal place.

b 3 is in second decimal place.

3 is next digit.

8 is next digit.

 $\therefore$  Leave the 7. $\therefore$  Round up the 3 to 4. $\therefore$  8.7 $\therefore$  8.74**Exercise**

1 Write 7463.9 to the nearest:

a integer

b ten

c hundred

2 Write 6.4937 correct to:

a 3 decimal places

b 2 decimal places

c 1 decimal place

3 Write 4856.39 correct to the nearest:

a hundred

b ten

c integer

4 Round off 15.5751 correct to:

a 1 decimal place

b 2 decimal places

c 3 decimal places

5 Write 65 927 correct to the nearest:

a ten

b hundred

c thousand

6 Round off 68.934 correct to:

a the nearest whole

b 1 decimal place

c 2 decimal places

7 Write 0.85473 correct to:

a 2 decimal places

b 4 decimal places

c 1 decimal place

8 Round off 84 306.8 to the nearest:

a integer

b ten

c hundred

1:09 Approximation

1 a 7464	b 7460	c 7500	2 a 6.494	b 6.49	c 6.5
3 a 4900	b 4860	c 4856	4 a 15.6	b 15.58	c 15.575
5 a 65.930	b 65.900	c 66.000	6 a 69	b 68.9	c 68.93
7 a 0.85	b 0.8547	c 0.9	8 a 84.307	b 84.310	c 84.300