

Worksheet F

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Round Numbers to the Nearest 10 000 and 100 000

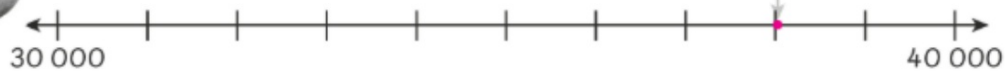
Level 1 Level 2 Level 3

If you are not sure, you
can refer to Student's
Book page 19.



I The distance around Venus is 38 025 km.

a Round this distance to the nearest 10 000 km.



38 025 km rounded to the nearest 10 000 km is 40 000 km.

- b Round this distance to the nearest 100 000 km.

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38 025 km rounded to the nearest 100 000 km is 0 km.

- c Look at a and b. Is it more useful to round the number to the nearest 10 000 km or 100 000 km? Explain why.

It is more useful to round the number to the nearest 10 000 km in this case because when rounded to the nearest 100 000 km, the answer is 0 km which is not the case.

- 2 The table shows the distance around different planets in the solar system.

Round each number to the nearest 10 000 km and 100 000 km.

Distance round the planet	Rounded to the nearest 10 000 km	Rounded to the nearest 100 000 km
Neptune, 154 705 km	150 000	200 000
Saturn, 378 675 km	380 000	400 000
Uranus, 160 590 km	160 000	200 000

3 The population of Malacca is 635 791.

a Round this number to the nearest 10 000. 640 000

b Round this number to the nearest 100 000. 600 000



The population in Selangor is 4 188 876.
This is about 4 200 000 when rounded to
the nearest 100 000.
I think there are more people in Selangor
than in Malacca.



Do you agree with Ali? Explain why.

Answers vary. For example: Yes, I agree with Ali. 4 200 000 is
greater than 600 000.



4

A charity company sells 750 649 tickets.

The tickets are printed in batches of 100 000.

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How many batches of tickets would they need to print?

Explain your answer.

750 649 rounded to the nearest 100 000 is 800 000. So, they need to print 8 batches of tickets.



5

The length of the Ganges River in India is 2510 km.

The length of the Ganges River is 0 km when rounded to the nearest 10 000 km and 100 000 km.



That sounds incorrect! The Ganges River is definitely longer than 0 km.



Who is right? Can they both be right?

Answers vary. For example: Caz is correct because when 2510 km is rounded to the nearest 10 000 km and 100 000 km, she gets 0 km for both answers. Ron is also correct because the river is definitely longer than 0 km, but he did not round 2510 km to the nearest 10 000 km or 100 000 km.

Level 1 Level 2 **Level 3**

6 Ron thinks of a number.

When he rounds it to the nearest 100 000, his answer is 100 000.

When he rounds it to the nearest 10 000, his answer is 100 000.

- a What is the greatest possible number he is thinking of? 104 999
- b What is the smallest possible number he is thinking of? 95 000



~~✗~~ Explain how you worked out both answers.

When we round to the nearest 100 000, we round up if the ten
thousands digit is 5 or more. We round down if the ten thousands digit
is 0 to 4. Numbers that round to the nearest 100 000 are 95 000 to
104 999.