Worksheet E

### Round Numbers to the Nearest 10, 100 and 1000

Level 1 Level 2 Level 3

> If you are not sure, you can refer to Student's Book pages 16 and 17.

1 The Chenab River flows in India and Pakistan.
It is 1086 km long.

a
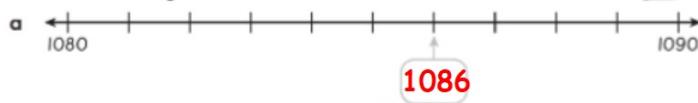
1080 — 1090

1086

Is 1086 nearer to 1080 or 1090? **1090**

1086 rounded to the nearest 10 is **1090**.

b
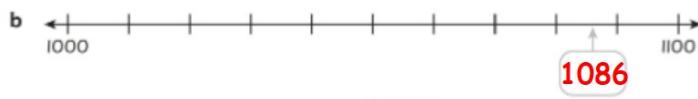
1000 — 1100

1086

Is 1086 nearer to 1000 or 1100? **1100**

1086 rounded to the nearest 100 is **1100**.

c

1086

$$\overset{\displaystyle\longleftarrow}{\underset{\text{1000}}{\rule{0pt}{0pt}}}\quad\quad\quad\quad\quad\quad\quad\quad\overset{\displaystyle\longrightarrow}{\underset{\text{2000}}{\rule{0pt}{0pt}}}$$
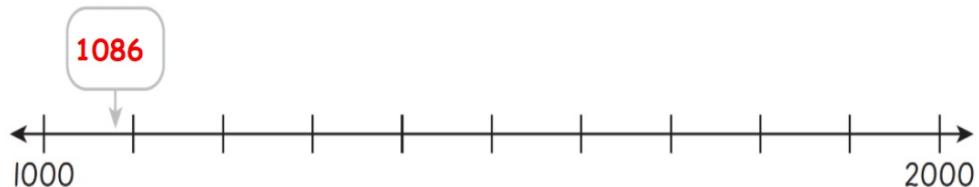
Is 1086 nearer to 1000 or 2000? __1000__

1086 rounded to the nearest 1000 is __1000__.

2 Here are the lengths of some other rivers in Asia.

   a Round each number to the nearest 10, 100 and 1000.

Length of River	Rounded to the nearest		
	10 km	100 km	1000 km
Hong River, 1149 km	1150	1100	1000
Yellow River, 5464 km	5460	5500	5000
Mekong River, 4909 km	4910	4900	5000

b If you are estimating the length of a river, is it more useful to round the numbers to the nearest 10, 100 or 1000 km? Which is the most useful way?

It is the most useful to round to the nearest 100 km because it gives a good estimate and is useful for calculating. |

3 Caz has the following digit cards.

| 0 | 1 | 2 | 3 | 4 | 5 | 6 |

a Which number could she make if it gives 0 when rounded to the nearest 1000?

There is more than one possible answer.
example 123

b What is the greatest possible number she can make in **a**?
465

c What number could she not make in **a**? Why?

any number that is greater than 500

4 The given numbers round to 125 000 when rounded to the nearest 1000.
   Fill in the missing digits to make the statement true.

   12 __4__ 590   125 __0__ 90   124 __501__

5 Ron makes two numbers.

   Both numbers have five digits and have a difference of 5.

   The first number rounds to 50 000.

   The second number rounds to 51 000.

   What could the two numbers be?
   50 495 and 50 500

6 Aida, Sara and Sayed made the following guesses.

Student	Guess
Aida	Numbers with a tens digit of 5 always round up to the nearest 100. So, 457 rounds up to 500.
Sara	Numbers with a ones digit of 5 always round up to the nearest 100. So, 475 rounds up to 500.
Sayed	Numbers with a hundreds digit of 5 always round up to the nearest 1000. So, 4579 rounds up to 5000.

Are they correct? Critique their guesses.

Sara is wrong. When we round a number to
the nearest 100, we look at the digit in the tens place, not the ones place.
Since the tens digit in 475 is 7, we round up to 500.