

# Round to estimate and approximate

- 1 Rosie is working out  $2,937 + 1,870$   
Rosie rounds each number to the nearest 1,000 to estimate the answer.

Complete the sentences.

2,937 rounded to the nearest 1,000 is

1,870 rounded to the nearest 1,000 is

Rosie's estimate for the answer is

$$\boxed{\phantom{0000}} + \boxed{\phantom{0000}} = \boxed{\phantom{0000}}$$

Complete the column addition to work out the actual answer.

		2	9	3	7		
	+	1	8	7	0		

The actual answer is

- 2 Round each number to the nearest 10,000 to estimate the answer to the calculations.

a)  $12,063 + 29,580$   +  =

b)  $47,640 - 9,485$   -  =

- 3 Annie works out  $7,320 + 912$



Use approximations to show that Annie is incorrect.

---



---

- 4 Complete the calculations.

Use approximations to check your answers.

a)  $3,845 \text{ km} + 7,006 \text{ km} =$

b)  $873 + 9,618 =$

c)  $79,382 - 8,716 =$

d)  $£12,005 + £3,978 - £6,172 =$

- 5 The table shows the number of people of different ages living in three towns.

	Town A	Town B	Town C
Under 16	3,765	8,283	10,301
16 to 65	35,835	14,100	24,554
Over 65	1,949	9,821	656

Estimate which town has got the greatest population.

Town \_\_\_\_ has the greatest population.

- 6 Are these statements correct? How do you know?

a)  $29,999 - 9,999 = 30,000 - 10,000$

---



---

b)  $17,550 + 10,570 > 17,550 + 9,985$

---



---

c)  $17,990 + 75,980 - 17,990 = 12,975 + 75,980 - 12,975$

---



---

- 7 Mo has made a mistake with this calculation.

$$\begin{array}{r}
 6 \text{ } ^{13} \text{ } ^{12} \\
 1 \text{ } \cancel{7} \text{ } \cancel{4} \text{ } \cancel{3} \text{ } ^{12} \\
 - \quad 8 \text{ } 4 \text{ } 8 \text{ } 7 \\
 \hline
 1 \text{ } 8 \text{ } 9 \text{ } 4 \text{ } 5
 \end{array}$$

Use rounding and approximating to show how you know.

---



---

- 8 Mr Khan writes this question on the board.

$$7,395 - 711$$

Dexter's estimate is  $7,000 - 1,000 = 6,000$

Whitney's estimate is  $7,400 - 700 = 6,700$

Whose estimate do you agree with? \_\_\_\_\_

Explain your answer.

---



---

Work out the actual answer.

Whose estimate was the closest? \_\_\_\_\_

Talk about it with a partner.

