

2 Read across the grid or down the grid to find a 3-digit number. Then choose a single digit from any square in the grid to add to your number.

Show your method. Do this three times.

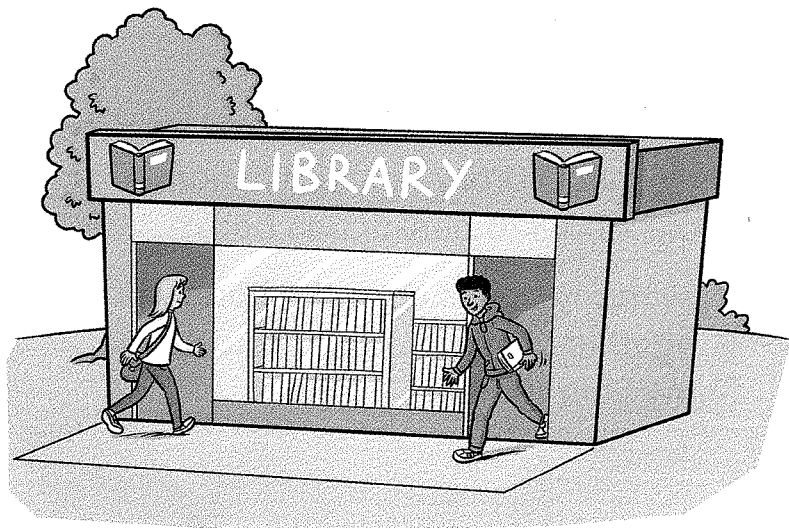
5	1	2
3	6	8
4	7	9

3 On Tuesday, 134 adults and 53 children visited the library. How many people visited the library on Tuesday?

Estimate and then find the total.
Show your method.

Tip

Round each number to the nearest 10 to help you estimate your answer.



Exercise 9.1

Complete these 2-digit additions. Show your method.

a estimate:

$$43 + 56$$

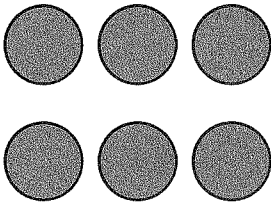
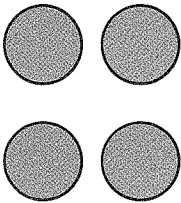
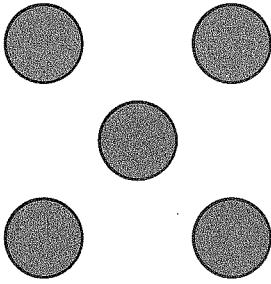
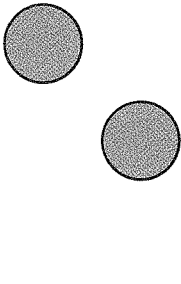
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b estimate:

$$67 + 29$$

=

Add together the two numbers represented below. Estimate the total. Complete the number sentence and represent the total in the place value grid.

100s	10s	1s
		
		

estimate: _____

Worked example 1

Estimate and then solve this addition. Show your method.

$$645 + 272$$

Estimate: $650 + 270$

$$920 + 270 = 920$$

Rounding to the nearest 10, 645 rounds to 650 and 272 rounds 270.

I can count on in hundreds and tens from 650 to find the total estimate: 650, 750, 850, 860, 870, 880, 890, 900, 910, 920.

$$645 = 600 + 40 + 5$$

$$272 = 200 + 70 + 2$$

$$800 + 110 + 7 = 917$$

I am going to decompose the numbers.

Now I can add the hundreds, tens and ones together and compose the total.

Estimate and then solve these additions. Show your method.

a estimate:

$$233 + 50$$

=

b estimate:

$$178 + 60$$

=

c estimate:

$$154 + 65$$

=

d estimate:

$$191 + 56$$

=

e estimate:

$$286 + 352$$

=

f estimate:

$$473 + 166$$

=

Share and discuss your methods with your partner.

- 3 Make each addition fact in question 1 ten times larger to make complements of 1000 that are multiples of 10.

a $35 + \square = 100 \rightarrow 350 + \square = 1000$

b $53 + \square = 100 \rightarrow$

c $77 + \square = 100 \rightarrow$

d $81 + \square = 100 \rightarrow$

e $8 + \square = 100 \rightarrow$

- 4 Find the missing complements. Remember to calculate mentally.

a $880 + \square = 1000$

b $470 + \square = 1000$

c $240 + \square = 1000$

d $510 + \square = 1000$

e $340 + \square = 570$

f $750 + \square = 900$

g $560 + \square = 850$

h $370 + \square = 720$

i $670 + \square = 810$

j $390 + \square = 570$

Marcus says that calculating is much easier and quicker than counting on or counting back. Do you agree? Explain why.