

# Subtract a 2-digit number from a 3-digit number – crossing 100

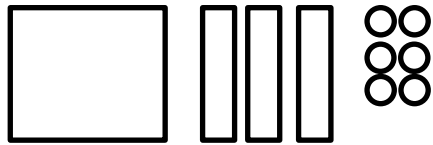


Draw base 10 to make the number 136.

Remember to use squares for hundreds, rods for tens and circles for ones.



Does yours look like this?

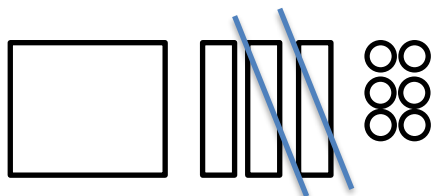


Have a go. Can you subtract 20 (2 tens)?

**a)** Complete the subtraction.

$$136 - 20 = \boxed{\phantom{000}}$$



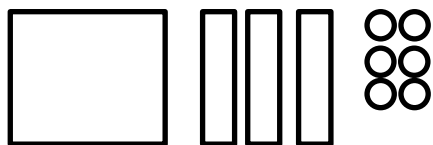


Did you get 116?

a) Complete the subtraction.

$$136 - 20 = \boxed{116}$$



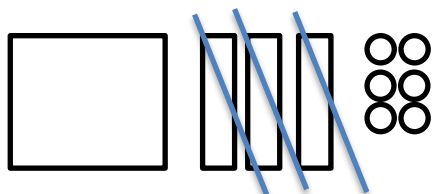


Have a go at working this one out.

**b)** Complete the subtraction.

$$136 - 30 = \boxed{\phantom{000}}$$





Did you get 106?

**b)** Complete the subtraction.

$$136 - 30 = \boxed{106}$$



$$245 - 50 = ?$$

- I** c) How could you work out  $245 - 50$  using base 10?

Try drawing 245 using base 10.



$$245 - 50 = ?$$



c) Does yours look like this?



Now, we want to subtract 50 from 245.

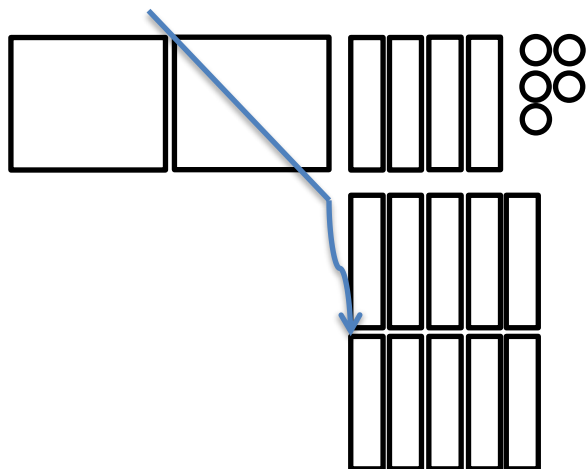
Can we take 5 tens away from 4 tens?



$$245 - 50 = ?$$



c) No! So we need to exchange 1 hundred for 10 tens.

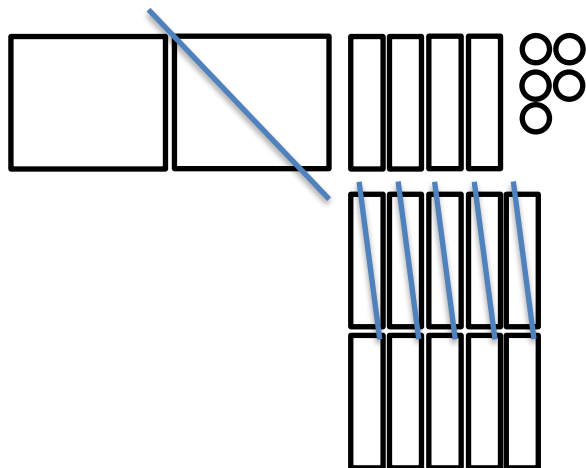


Can we take 5 tens away now?



$$245 - 50 = ?$$

- I** c) Yes, we have 14 tens. We can take 5 tens from 14 tens.

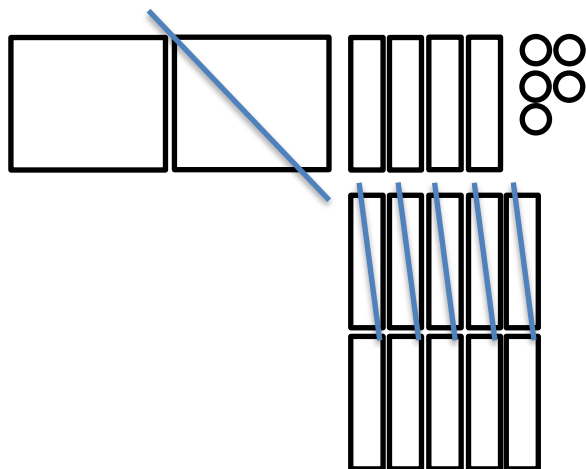


How many tens are we left with?

$$245 - 50 = ?$$



c)  $14 - 5 = 9$  tens

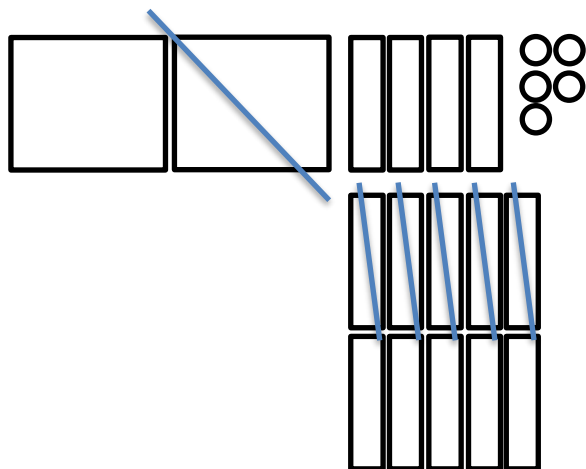


What is the final answer?

$$245 - 50 = 195$$



c)  $14 - 5 = 9$  tens



Did you get 195?



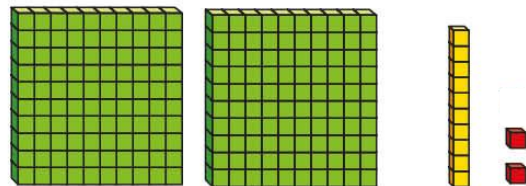


Have a go!

2

Complete the number sentences.

a)  $212 - 60 =$



b)  $611 - 40 =$

H	T	O
100 100	10	1
100 100		
100 100		



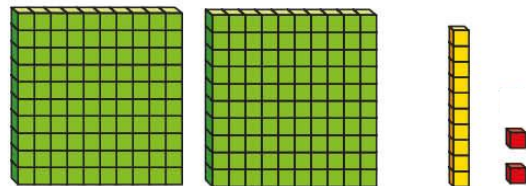
Have a go!

2

Complete the number sentences.

a)  $212 - 60 =$

152

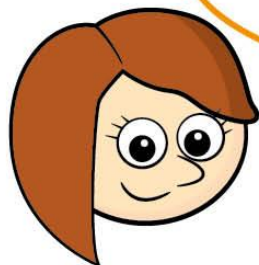


b)  $611 - 40 =$

571

H	T	O
100 100	10	1
100 100		
100 100		

3



You can't subtract 80 from 412 as you don't have enough tens.

H	T	O
<div>100</div> <div>100</div> <div>100</div> <div>100</div>	<div>10</div>	<div>1</div> <div>1</div>

Milly is wrong.

How do we know?

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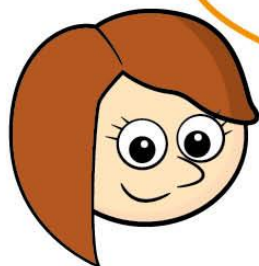


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3



You can't subtract 80 from 412 as you don't have enough tens.

H	T	O
<div>100</div> <div>100</div> <div>100</div> <div>100</div>	<div>10</div>	<div>1</div> <div>1</div>

Milly is wrong.

How do we know?

We can because we can exchange a hundred for 10 tens and then subtract 8 tens from the 11 tens we would have.

- 6 Sally is working out  $413 - 70$  in her head.  
She says the answer is 463  
What mistake do you think Sally has made?





6 Sally is working out  $413 - 70$  in her head.

She says the answer is 463

What mistake do you think Sally has made?

Sally has subtracted 10 from 413 to make 403.

$$413 - 10 = 403$$

She has worked out she needs to subtract 60 more.

$$70 - 10 = 60$$

She made the mistake of adding 60 not subtracting it to make 463.

$$403 + 60 = 463$$

