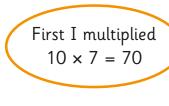
Know and use mental multiplication and division strategies for integers



Whitney is working out 13 × 7 mentally.



Then I multiplied 3 × 7, which is 21

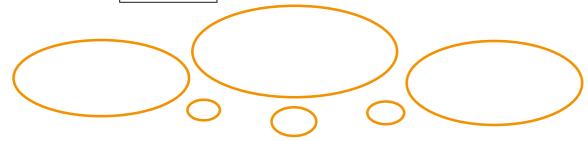


Then I added 70 and 21 to get 91. So 13 × 7 = 91

Use Whitney's method to work out the calculations.

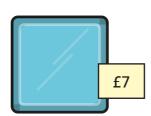
For parts a) and b), write the steps you followed.





Ms Xu needs to buy 15 tiles.

She can buy a pack of 15 or she can buy them individually.



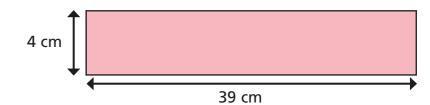


a) By doing a quick mental calculation, is it cheaper to buy the

pack of 15? _____

b) Explain why mental arithmetic might help in everyday life.

3 Here is a rectangle.



Describe a mental method you could use to work out the area of the rectangle.

Compare your method with a partner's.

Here are some multiplications.

Work them out mentally.

60 × 4



600 × 4

	2

400 × 60

Talk about your method with a partner.

Here is a method to work out 99×7 mentally.

Step 1: Multiply 100 by 7 = 700

Step 2: Subtract 7 from 700 = 693

a) Explain to a partner why this method works.

b) Work out 98 x 7 mentally. Then write the steps in your thinking.

c) Work out 199 x 3 mentally. Then write the steps in your thinking.

Work out the multiplications mentally.

Teddy is explaining how he worked out 600 ÷ 25 in his head.



There are 4 lots of 25 in 100. I then multiplied 4 by 6 to get 24. So 600 divided by 25 is 24

Why did Teddy multiply by 6 to get the answer?

Use a similar method to Teddy's to work out the divisions.

Explain how you can mentally work out £240 ÷ 6

Use mental methods to work out the divisions.