



© Can I perform mental calculations, including with mixed operations and large numbers?

## Make the Number Game 1

If I know the answer to

$$3 \times 8 =$$

How will this help me solve...

$$30 \times 8 = ?$$

$$30 \times 80 = ?$$

$$80 \times 3 = ?$$

Jade says "I want to divide a number by 40, but I want to find the most efficient mental method."

What suggestions would you give Jade?

$$81,000 \div 900 = ?$$

What different methods could you use to solve this calculation?

Two numbers have a sum of 24.

What could their product be?

How many possible combinations can you find?

How many different ways can you solve...

$$25 \times 30 = ?$$



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## Make the Number Game 2

$$24 \times 19 =$$

What is the answer?

How did you work it out?

If you know this, how  
can you work out...

$$20 \times 24 = ?$$

Rewrite the following  
to show how you would  
calculate these mentally...

$$25 \times 13 \times 4 =$$

$$18 \times 2 \times 50 =$$

$$12 \times 75 \times 2 =$$

Two numbers have a  
sum of 100. What could  
their product be?

How many different  
possibilities can you  
find?

Sanjay says "If I multiply a  
two digit number by a two  
digit number, I will always  
get a three or four digit  
number".

Is he correct?

What is the most efficient  
way to find out?

Explain your answer.

I want to divide a whole  
number by 80.

Find five different ways  
I can do this.



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## Make the Number Game 3

What is the largest number you can create from a calculation that uses the following numbers and operations only once?

$\times + - 23 6 50$

How would you rearrange...

$$23 \times 2.5 \times 10 \times 4 =$$

$$40 \times 13 \times 25 \times 2 =$$

$$0.1 \times 0.1 \times 100 \times 0.1 =$$

A class are trying to work out the answer to

$$4835 + 4165 =$$

Think of as many different mental ways as you can to do this.

What is the best way to solve...  
 $3000 - 1482 = ?$

Jahil says: "I used number bonds to 1500, 2000 and then 3,000."

Dana says: "I used the column method".

James says: "I subtracted one from each number and then used the column method".

Which way do you think is best?

Two numbers have a sum of 150.

What could be their largest and smallest products?