



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

Maths Maze Game 1

Create 3 calculations
using all 4 operations
that have an answer
of four hundred.

Lania receives £120 for
her birthday. She spends $\frac{3}{4}$
and saves the rest.
How much does she save?

In one day, Sean walks 3,999
steps. Ashir walks 2,999 and
Jaydon 5,999.

How many steps did they
walk altogether?

Their target is to walk 50,000
steps.

How many days would this
take if they walked the same
number of steps each day?

Multiply 5 by 4.

Add 4 and divide by 3.

Halve this and multiply
by 4.

Subtract 1 and divide by 3.

Multiply your number by
itself and subtract 6.

What is your result?

If I know...

$$4 \times 3 = 12$$

Can I work out...

$$4 \times 30 = ?$$

$$40 \times 30 = ?$$

$$400 \times 3000 = ?$$

$$12 \div 0.4 = ?$$



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

Maths Maze Game 2

I bought two tubes of paint for £35. One red and one blue.

The blue one cost £9 more than the red one.

How much did each tube cost?

Explain your answer.

Can you give three examples of when using mental calculation is the better method to use than a written calculation?

$$xy = 48$$

Give as many possible pairs of numbers x and y could be.

For example, $1 \times 48 = 48$
so $x = 1$ and $y = 48$

What is the sum of the next two square numbers after 7×7 ?

Round your answer to the nearest 10 and 100.

Find the product of 7 and 3.

Add 9 and divide by 2.

Divide by 3 and square your number.

Double it and add 4.

Divide by 9 and multiply by 3.

Can you create your own number puzzle?



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

Maths Maze Game 3

Five circles have a radius of 2, 3, 4, 5 and 6.5 centimetres.

What is the product of their diameters?

The flight time from London to Bangkok is 11 hours and 20 minutes. I arrive in Bangkok at 03:05.

When did I leave London in Bangkok time? They are 6 hours ahead of London.

Explain your workings.

$$\frac{xy}{2} = 16$$

Find out as many possible numbers for x and y .

You can use decimals.

A scale model is 1:300 of the real tower. The tower from the base to $\frac{1}{3}$ up is 40 meters.

How tall will my model be?

Start with 4^2 and find 50% of it. Square the number and add 6. Multiply by 4 and find 10% of it. Find $\frac{1}{7}$ of it and multiply by 9.

Find the square root and multiply by 8.

What answer did you get?