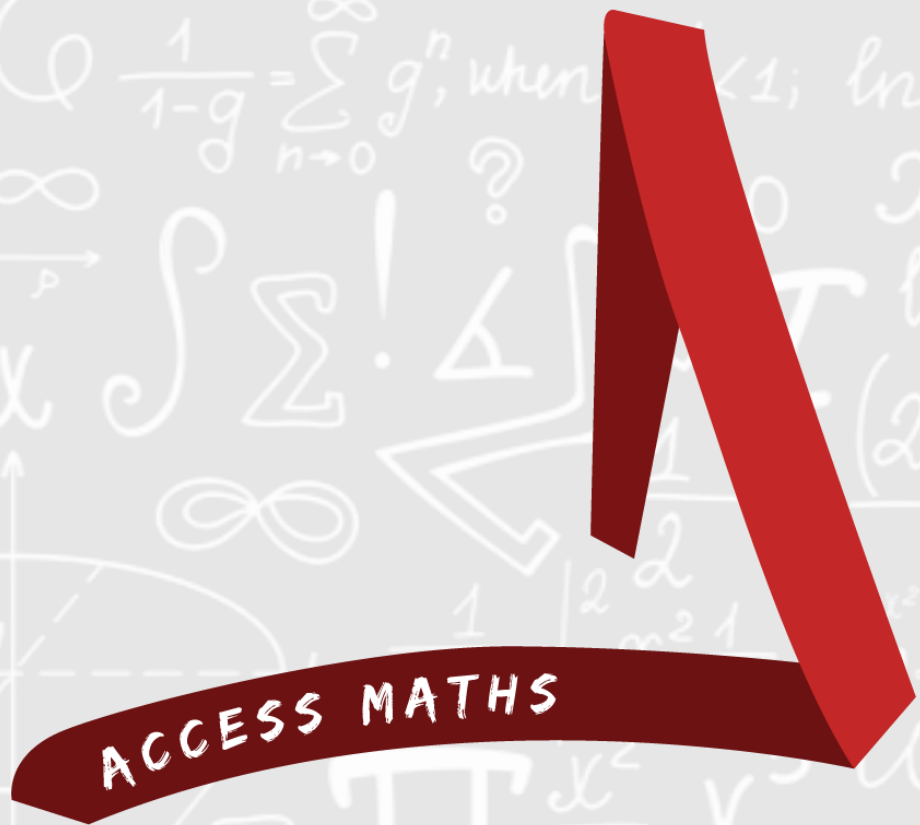


# NUMERACY CHALLENGE



**LEVEL 1**



**LEVEL 2**

# NUMERACY CHALLENGE



The worlds largest jigsaw was completed by 1600 students in Vietnam in 2011! It filled an entire sports hall, can you guess how many pieces there were?

Replace ? with + – x or ÷ so the results of each of the 3-number calculations are 6 when working one step at a time from left to right (with no brackets):

$$3 \ ? \ 4 \ ? \ 6 = 6$$

$$6 \ ? \ 2 \ ? \ 3 = 6$$

$$8 \ ? \ 4 \ ? \ 2 = 6$$

$$3 \ ? \ 6 \ ? \ 3 = 6$$

# LEVEL 1

# NUMERACY CHALLENGE



The countdown number round has been aired on channel 4 over 6500 times since November 1982. If you finish, see if you can solve this one! And for more of a challenge see if you can use all 6 numbers!

In each of the following challenges, your task is to arrive at the target answer of 24 by using the four digits in each row exactly once each, and with  $+$   $-$   $\times$   $\div$  available.

You don't have to use the numbers in order.  
They are all possible!

1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7
5	6	7	8

## LEVEL 2

# NUMERACY CHALLENGE LEVEL 1

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# NUMERACY CHALLENGE LEVEL 2

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# LEVEL 1

$$1) 3 \times 4 - 6 = 6_{\text{SEP}}^{\text{L}}$$

$$2) 6 \div 2 + 3 = 6_{\text{SEP}}^{\text{L}}$$

$$3) 8 - 4 + 2 = 6_{\text{SEP}}^{\text{L}}$$

$$4) 3 \times 6 \div 3 = 6$$

This is one possible solution.

Worlds Largest Jigsaw Estimate: The jigsaw contained 551,232 pieces (over half a million!!) and took 17 hours to complete!

# LEVEL 2

$$1) 3 \times 4 = 12 \text{ then } \times (2 \div 1) = 24_{\text{SEP}}^{\text{L}}$$

$$2) 3 - 2 = 1 \text{ then } + 5 = 6 \text{ and } \times 4 = 24_{\text{SEP}}^{\text{L}}$$

$$3) 5 - 4 = 1 \text{ then } + 3 = 4 \text{ then } \times 6 = 24_{\text{SEP}}^{\text{L}}$$

$$4) 6 - 5 = 1 \text{ then } 7 - 1 = 6 \text{ and } \times 4 = 24_{\text{SEP}}^{\text{L}}$$

$$5) 7 - 5 = 2 \text{ then } 8 \div 2 = 4 \text{ and } \times 6 = 24$$

This is only one set of solutions, there may be different ones.

Extra Countdown Solution Level 2:  $50 \times 10 = 500$ ,  $8 \times 7 = 56$  and add them together! To use all the numbers  $2 - 1 = 1$  and divide 556 by 1.