

## Troposphere



## Section One

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Intro to algebra

Key skills

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## Section Two

Literacy

Reflect

Problem solving

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# Times tables

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1

$3 \times 5 =$

2

$5 \times 4 =$

3

$4 \times 7 =$

4

$7 \times 2 =$

5

$2 \times 12 =$

6

$12 \times 8 =$

7

$8 \times 3 =$

8

$3 \times 11 =$

9

$11 \times 10 =$

10

$10 \times 9 =$

11

$9 \times 8 =$

12

$8 \times 7 =$

13

$7 \times 6 =$

14

$6 \times 5 =$

15

$5 \times 7 =$

1  $x \times y = 5$

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$

4  $x \times y = 0.5$

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$

7  $x - y = 5$

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$

2  $a + b = 5$

$a = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$

5  $a + b = 0.5$

$a = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$

8  $a - b = 5$

$a = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$

3  $m \div n = 5$

$m = \underline{\hspace{2cm}}$

$n = \underline{\hspace{2cm}}$

6  $m \div n = 0.5$

$m = \underline{\hspace{2cm}}$

$n = \underline{\hspace{2cm}}$

9  $m - n = -5$

$m = \underline{\hspace{2cm}}$

$n = \underline{\hspace{2cm}}$

1  $2 \times 12 \times 5 \times 2 =$

2  $144 \times 3 \div 12 =$

3  $25\% \text{ of } 36 =$

4  $10\% \text{ of } 72 =$

5  $0.4 \times 0.3 =$

6  $5 \times 22 =$

7  $115 \div 5 =$

8  $\frac{1}{4} \text{ of } 500 =$

9  $\frac{4}{5} \text{ of } 15 =$

10  $4.8 \times 5 =$

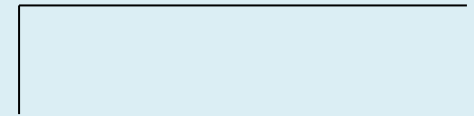
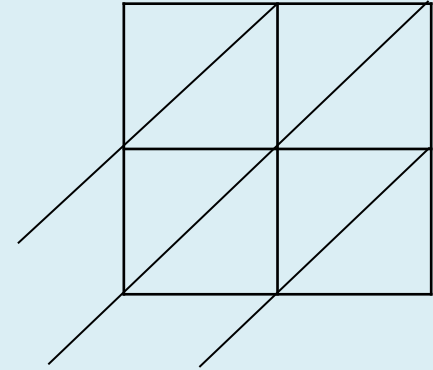
# Key methods

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1  $46 \times 53 =$

2  $2601 \div 3 =$

3  $\frac{3}{7} + \frac{2}{5} = \text{---} + \text{---} =$



# Feedback

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This person has made a mistake. **Find it and correct it.**

1

 $467 - 183 = 324$

$$\begin{array}{r} 467 \\ - 183 \\ \hline 324 \end{array}$$

**Reflect on the first section.**

**WWW:**

**EBI:**





# Literacy

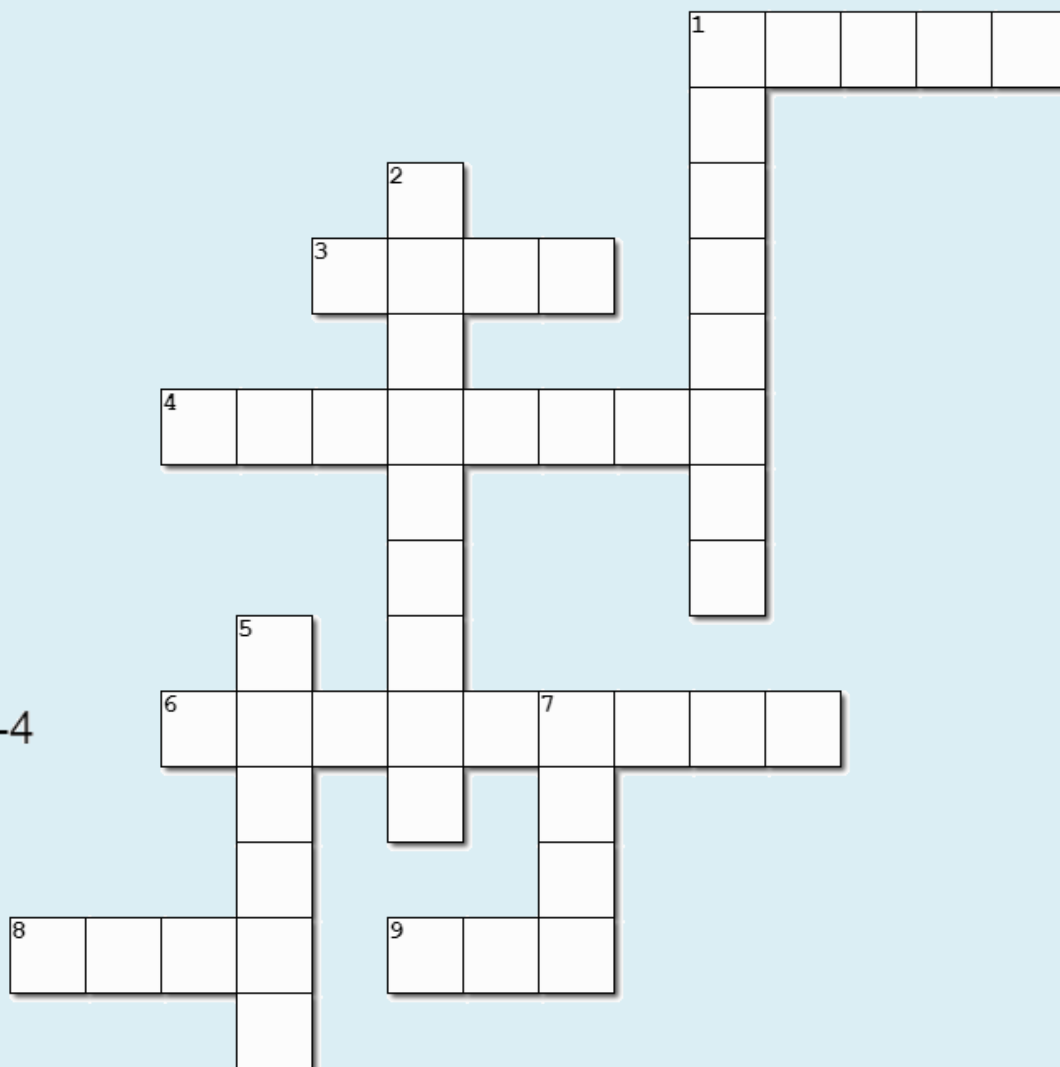
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## Across

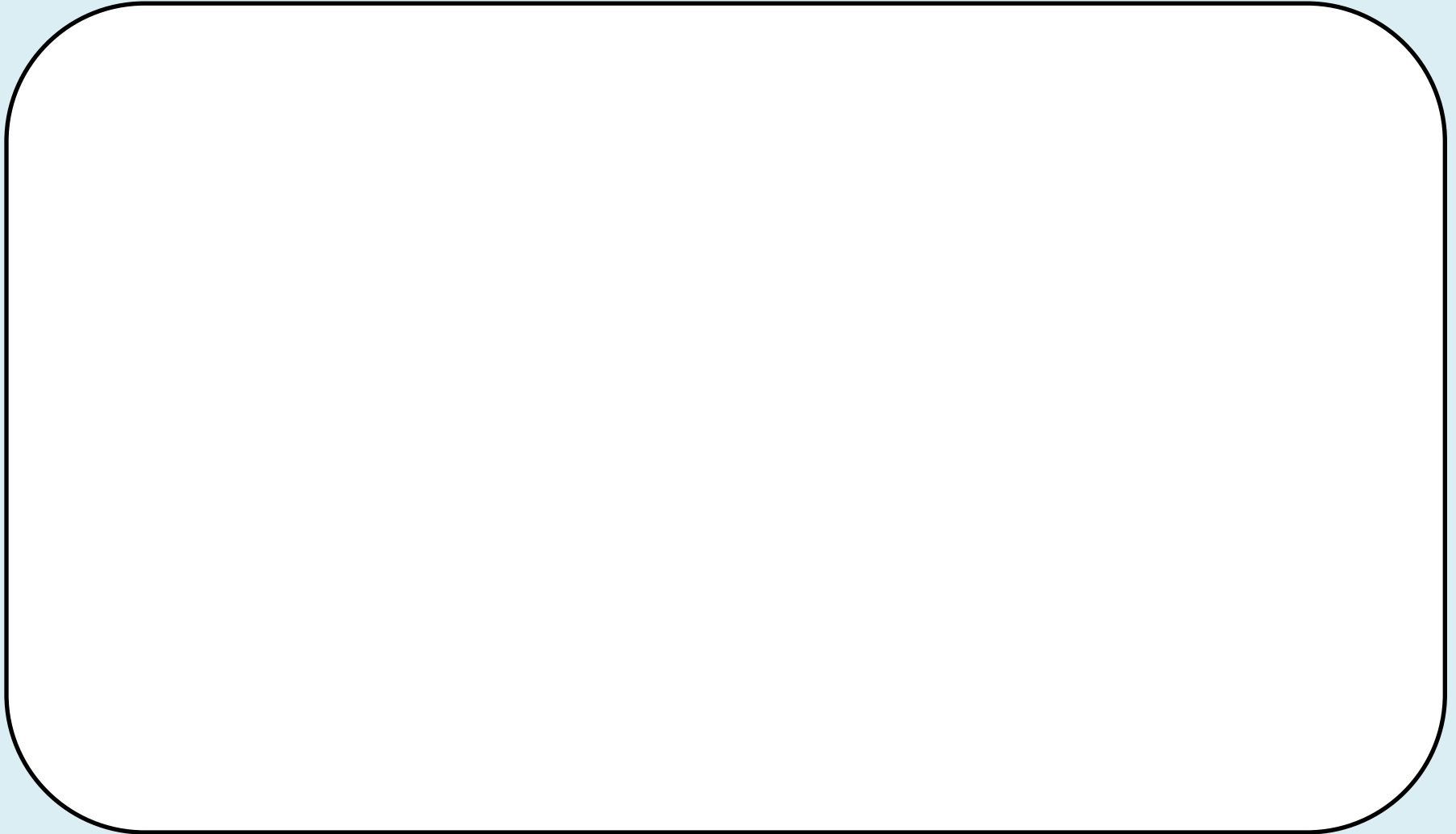
1. Half of a fifth
3. Opposite sides sum to seven
4. 25 is a \_\_\_\_\_ of 5
6. e.g. 3, 5, 7, 9, 11
8. The product of 10 and 0.5
9. 20% of 5

## Down

1. Cross paths
2. 0.25, 1, 4, 16, ?
5. More than 180 degrees
7. The difference between 5 and -4



**What are the main barriers to succeeding in maths?**

A large, empty rounded rectangle with a black border, intended for the user to write their reflection on the barriers to succeeding in maths.

# Problem solving

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Use the column method of addition to calculate the following.

1  $367 + 976 =$

2  $3.67 + 97.6 =$

3 Find a value of  $x$  and  $y$  so that,

$$x^2 + y < y^2 - x$$

$$x =$$

$$y =$$

# Show your workings

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1) How many people would be needed to create a human chain around the world?

Every person in the world joins together to make a human chain.

2) How many times around the world does it go?

**You must justify and explain your answers.**

*Pop  $\approx 7.8bn$*



*Equator  $\approx 40,000km$*

# End of the lesson

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**Well done for completing the lesson.**



## Reflections

A large, empty, rounded rectangular box with a black border, intended for students to write their reflections.