Rearranging equations

Study Development Worksheet

## Example

Make the subject of the equation:

## Answer

We begin by adding to both sides:

and then simplify:

We then minus from both sides and simplify:

We then divide both sides by :

=

and then simplify:

=

We then take of both sides:

and then simplify:

Rearranging equations

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## Questions

1. Make distance the subject of the equation: speed =
2. Make the subject of the equation:
3. Make the subject of the equation:
4. Make the subject of the equation:
5. Make the subject of the equation: =
6. Make the subject of the equation:
7. Make the subject of the equation:

Rearranging equations

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## Answers

1. Multiply both sides by time:

speed time =

then simplify:

speed time = distance

1. Multiply both sides by :

Divide both sides by :

1. Multiply both sides by 2:

Then divide both sides by

Finally, take the square root of both sides:

Rearranging equations

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1. Add to both sides:

Minus from both sides:

Finally, take the square root of both sides:

1. Multiply both sides by

Then multiply both sides by

Divide both sides by

Finally, take of both sides:

Rearranging equations

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1. Factorise the left-hand side to get

Then divide both sides by

1. Divide both sides by

Take logs of both sides:

Then simplify:

Divide both sides by

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