Let's Add and Subtract

Learning Objective:

To be able to use addition and subtraction to solve word problems.

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Today you're going to be using your Maths skills to solve some word problems!

What are some of the things you need to do when you are solving word problems? What steps do you need to take?

Read

Understand

Choose

Solve

Answer

Check

1 **Read** the question carefully.

2 Make sure you **understand** what the question is asking.

3 **Choose** which operation and method you will need to use.

4 **Solve** the calculation.

5 **Answer** the question in a complete sentence.

6 **Check** your answer is accurate.

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265 bees live in this beehive. If 128 of them are off collecting nectar, how many of the bees are at the hive?

What answer did you get?

How did you work it out?

265 bees live in this beehive. If 128 of them are off collecting nectar, how many of the bees are at the hive?

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Here's each step I took to solve the problem. Can you explain each one?

1

Read

<u>265 bees</u> live in this beehive. If <u>128</u> of them are off collecting nectar, <u>how many</u> of the bees are at the hive?

2

Understand

265 bees altogether	
128 are away	How many left?

3

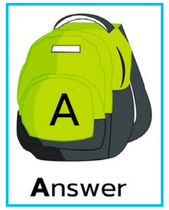
Choose

I will need to <u>take away</u> the 128 bees that are not at the hive from the total number of bees. I will need to do <u>subtraction</u>.

4

Solve

$$\begin{array}{r} 2\,{}^{5}\!\not{6}\,{}^{1}5 \\ -\ 1\ 2\ 8 \\ \hline 1\ 3\ 7 \\ \hline \end{array}$$

5 

Answer

There are 137 bees left at the hive.

6

Check

$$\begin{array}{r} 1\ 2\ 8 \\ +\ 1\ 3\ 7 \\ \hline 2\ 6\ 5 \\ \hline 1 \end{array}$$

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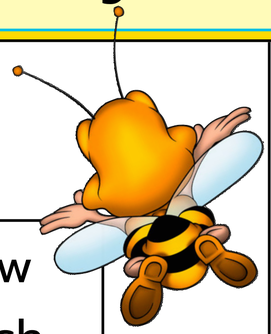
There are 454 grams of honey in the jar at the start of breakfast. By the end of breakfast, there are only 172 grams left in the jar. How much honey was eaten at breakfast?

Did you get the same answer? Were any of your steps different to mine?

1 **R**ead

There are 454 grams of honey in the jar at the start of breakfast. By the end of breakfast, there are only 172 grams left in the jar. How much honey was eaten at breakfast?

2 **U**nderstand



454 g	How much eaten?
	172 g left

3 **C**hoose

I need to work out what to add to 172 to make 454. I can do this by subtracting 172 from 454. I will use column subtraction.

4 **S**olve

$$\begin{array}{r} {}^{3}\cancel{4}\,{}^{1}5\;4 \\ -\;1\;7\;2 \\ \hline 2\;8\;2 \\ \hline \end{array}$$

5 **A**nswer

282 g of honey were eaten at breakfast.

6 **C**heck

$$\begin{array}{r} 2\;8\;2 \\ +\;1\;7\;2 \\ \hline 4\;5\;4 \\ \hline 1 \end{array}$$

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A beekeeper has three hives. There are 243 bees in the first hive, 187 bees in the second hive and 95 bees in the third hive. How many bees are there altogether?

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Did you get the same answer? Were any of your steps different to mine?

1 **R**ead

A beekeeper has three hives. There are 243 bees in the first hive, 187 bees in the second hive and 95 bees in the third hive. How many bees are there altogether?

2 **U**nderstand

Total number of bees		
243	187	95

3 **C**hoose

I need to add all the bees together. I can add 95 to 187 mentally by adding 100, then taking away five. I'll then add that total to 243 using column addition to find my answer.

4 **S**olve

187 + 95 $^{+5}$ =

187 + 100 = 287

287 - 5 = 282

$$\begin{array}{r} 282 \\ +\ 243 \\ \hline 525 \\ \hline {\scriptstyle 1} \end{array}$$

5 **A**nswer

There are 525 bees altogether in the three hives.

6 **C**heck

$$\begin{array}{r} {\scriptstyle 4}\not{5}{\scriptstyle 1}25 \\ -\ 243 \\ \hline 282 \end{array} \qquad \begin{array}{r} {\scriptstyle 1}\not{2}{\scriptstyle 17}\not{8}{\scriptstyle 1}2 \\ -\ 187 \\ \hline 095 \end{array}$$

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A shopkeeper gets 176 jars of honey from a local beekeeper. After one month, she has sold 81 of them. How many jars of honey does she have left?

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Did you get the same answer? Were any of your steps different to mine?

1

Read

A shopkeeper gets 176 jars of honey from a local beekeeper. After one month, she has sold 81 of them. How many jars of honey does she have left?

2

Understand

176 altogether	
81 sold	How many left?

3

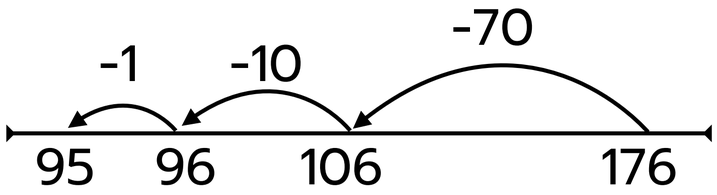
Choose

I need to take away the 81 jars of honey that have been sold from the 176 the shopkeeper had to start with. I will do this using a number line.

4

Solve

176 - 81 = 95



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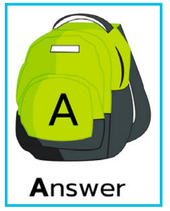

Answer

There are 95 jars of honey left in the shop.

6

Check

$$\begin{array}{r} 95 \\ +\ 81 \\ \hline 176 \\ \hline \end{array}$$

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The Beekeeper's Association conducted a survey. When they asked the participants if they had ever been stung by a bee, 419 said yes and 231 said no. How many people took part in the survey altogether?

Oh no! When I checked my work, I can see my answer isn't right because we should have 419 not 409! Can you help me work out where I went wrong?

1 R **Read**

The Beekeeper's Association conducted a survey. When they asked the participants if they had ever been stung by a bee, 419 said yes and 231 said no. How many people took part in the survey altogether?

2 U **Understand**

How many altogether?	
419 said yes	231 said no

3 C **Choose**

I need to add the number of people who said yes to the number of people who said no. I will use column addition to solve the calculation.

4 S **Solve**

$$\begin{array}{r} 419 \\ +\ 231 \\ \hline 640 \\ \hline \end{array}$$

5 A **Answer**

640 people took part in the survey altogether.

6 C **Check**

$$\begin{array}{r} 6\,{}^{3}\not{4}\,{}^{1}0 \\ -\ 231 \\ \hline 409 \\ \hline \end{array}$$

X

I forgot to exchange a ten in my addition calculation! Thanks for your help!

1 R **R**ead

The Beekeeper's Association conducted a survey. When they asked the participants if they had ever been stung by a bee, 419 said yes and 231 said no. How many people took part in the survey altogether?

2 U **U**nderstand

How many altogether?	
419 said yes	231 said no

3 C **C**hoose

I need to add the number of people who said yes to the number of people who said no. I will use column addition to solve the calculation.

4 S **S**olve

$$\begin{array}{r} 4\ 1\ 9 \\ +\ 2\ 3\ 1 \\ \hline 6\ \overset{5}{\cancel{4}}\ 0 \\ \hline \end{array}$$

1

5 A **A**nswer

650 people took part in the survey altogether.

6 C **C**heck

$$\begin{array}{r} 6\ \overset{4}{\cancel{5}}\ \overset{1}{0} \\ -\ 2\ 3\ 1 \\ \hline 4\ 1\ 9 \\ \hline \end{array}$$

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Are you ready to go and solve some problems on your own?

Plenary:

165 + 72 = 237

24 + 75 + 33 = 132

346 - 153 = 193

659 + 86 - 43 = 702

549 + 218 = 767

Can you turn these number sentences into word problems?

How many different word problems can you make?

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