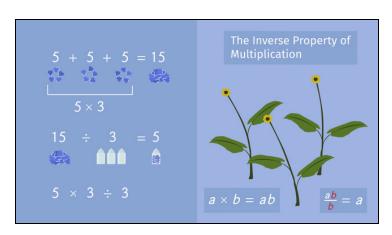
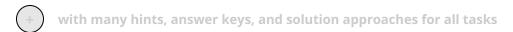
Worksheets to print out from sofatutor.com

Connections Between Adding and Subtracting, Multiplying and Dividing



Determine how many ladybugs Jerome found.
Explain how the Inverse Properties of Addition and Multiplication work.
Place the equations with the correct properties and definition.
Complete the equations to make true statements. (+ multiplication)
Figure out which equations represent how many of each item Jerome has lost.





The complete package, **including all tasks**, **hints**, **solutions**, **and solution approaches**, is available to all subscribers of sofatutor.com



Worksheet: Connections Between Adding and Subtracting, Multiplying and Dividing

Math / Middle School / Expressions and Equations / Connections between Operations / Connections Between Adding and Subtracting, Multiplying and Dividing



Determine how many ladybugs Jerome found.

Fill in the gap.



Jerome has to collect ladybugs for his special potion.

He only can collect 4 ladybugs at a time.

How many ladybugs did he collect altogether if he collected three rounds?

Answer:	

Math / Middle School / Expressions and Equations / Connections between Operations / Connections Between Adding and Subtracting, Multiplying and Dividing

Our hints for the tasks



Determine how many ladybugs Jerome found.

1. Hint

Jerome collects 4 ladybugs each time:

- 4 ladybugs one time
- ullet 4+4 ladybugs two times
- ..

2	ŀ	ı	i	n	t
∠.					·

You can also multiply $4\ \mathrm{by}\ 3.$

3. Hint

Just add 4 three times.

Math / Middle School / Expressions and Equations / Connections between Operations / Connections Between Adding and Subtracting, Multiplying and Dividing



Determine how many ladybugs Jerome found.

Answer key: 12

Jerome collects 4 ladybugs at one time:

Solutions and solution approaches for the tasks

So he collects

- 4+4=8 ladybugs two times
- 4+4+4=12 ladybugs three times

You can shorten the calculation by multiplying 4 by 3:

$$4+4+4=4\times 3=12.$$

Keep in mind that multiplication is a shorter way to write a sum with repeating summand a:

$$a+a+\cdots+a=n\times a$$
.