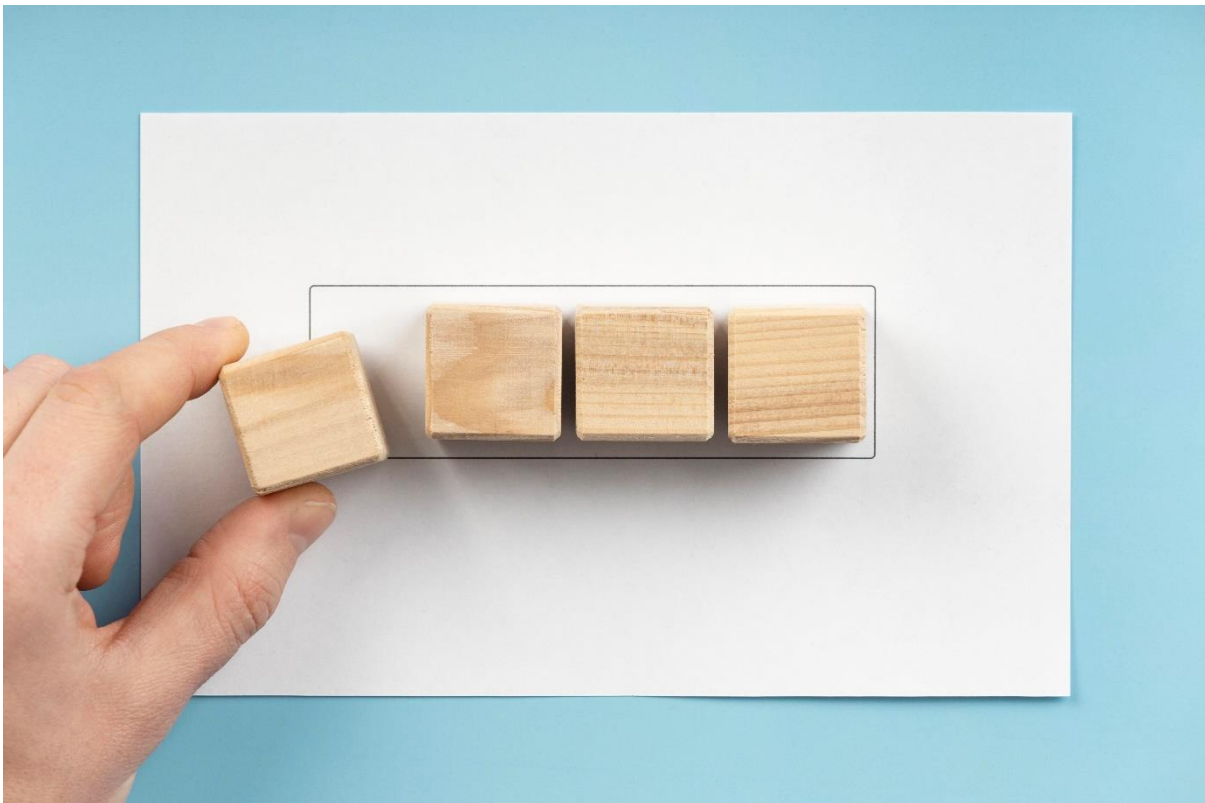


Gap and difference questions



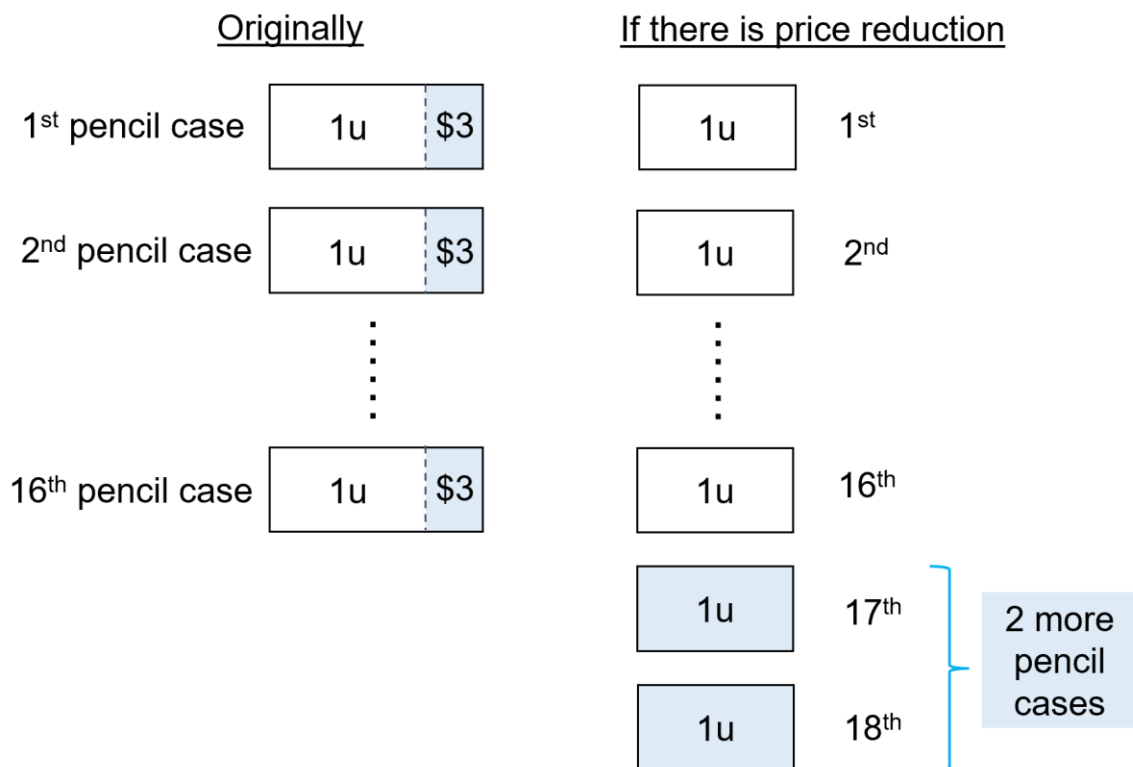
The primary goal of this math revision note is to enhance your child's proficiency in solving gap and difference questions.

These questions mainly assess your child's understanding on the technique to find the number of items with the total difference and difference in 1 item.

Question 1

Jovan bought 16 pencil cases. If the price of each pencil case was reduced by \$3, he would be able to buy 2 more pencil cases. Find the cost of 1 pencil case.

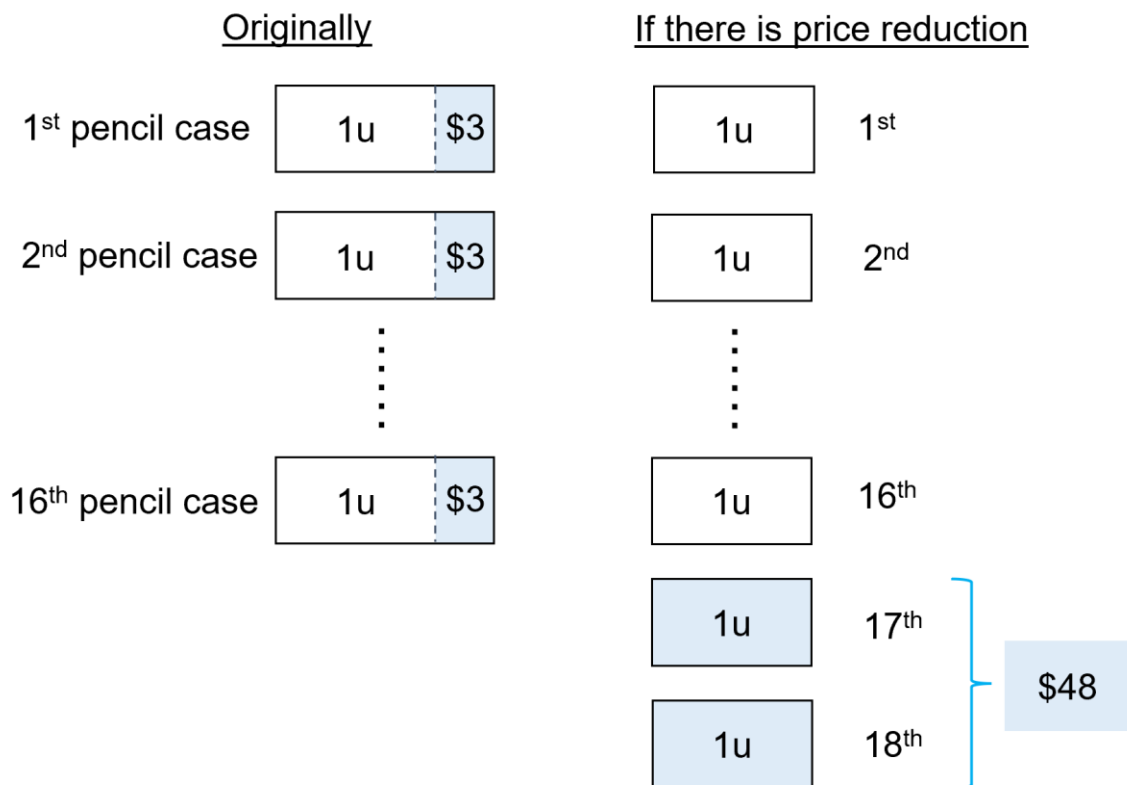
Solutions



$$\begin{aligned}
 \text{Total amount saved} &= \$3 \times 16 \\
 &= \$48
 \end{aligned}$$

When the price of each pencil case is reduced by \$3, he would be able to save \$48 in total.

Jovan can use this \$48 extra cash to buy the 2 more pencil cases which are sold at the reduced price.



$$2 \text{ u} = \$48$$

$$1 \text{ u} = \$48 \div 2 = \$24$$

The cost of 1 pencil case if the price is reduced is \$24.

$$\text{Actual cost of 1 pencil case} = \$24 + \$3 = \$27$$

Question 2

Blaine wanted to make some toys and he decided to use 22 ice-cream sticks for each toy.

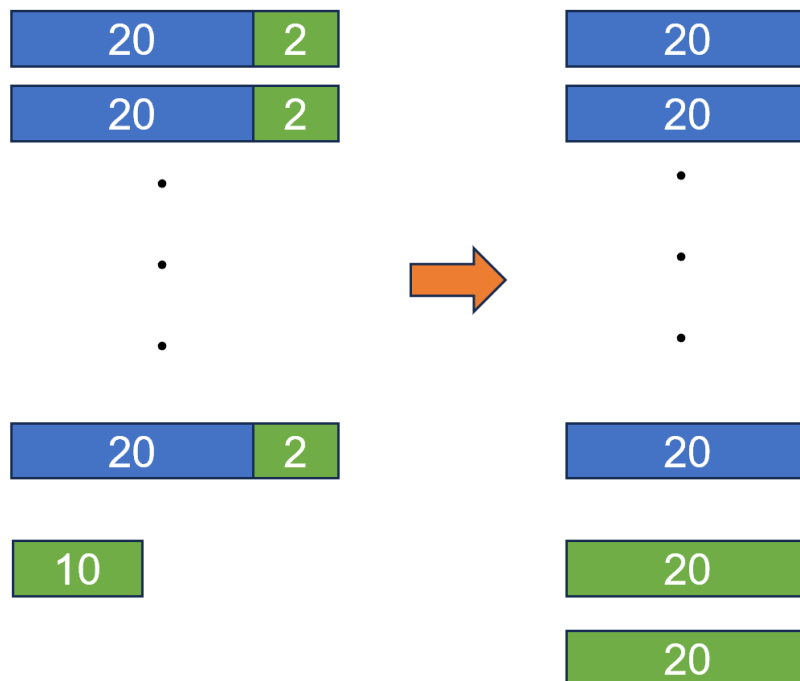
His brother gave him another 10 ice-cream sticks.

Then, he decided to use 20 ice-cream sticks for each toy instead of 22.

As a result, he was able to make 2 more toys.

How many toys did he make in the end?

Solutions



Number of sticks used for the 2 more 20-sticks toys = $20 \times 2 = 40$

These 40 sticks came from the sticks given by Blaine's brother and the additional 2 more sticks in each toy previously.

$$40 - 10 = 30$$

These 30 sticks make up the total of all the additional 2 more sticks in each toy previously.

By dividing this total extra amount by the extra amount in each toy, we find the number of toys previously.

$$\text{Previous number of toys} = 30 \div 2 = 15$$

$$\text{Number of toys in the end} = 15 + 2 = 17$$

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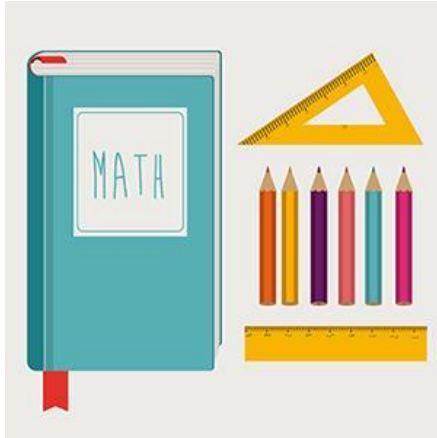
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