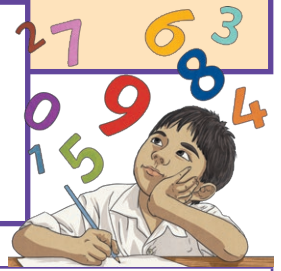


Two Truths and a Lie – Subtraction

Two of these subtraction facts are true. One of them is a lie.

Your mission: Find the lie, explain the error and calculate the true answer.



a. $850 - 220 = 630$

b. $735 - 145 = 610$

c. $699 - 199 = 500$

The lie is _____ because _____

True answer _____

a. $720 - 120 = 620$

b. $450 - 390 = 60$

c. $650 - 350 = 300$

The lie is _____ because _____

True answer _____

a. $145 - 144 = 1$

b. $865 - 220 = 645$

c. $1000 - 299 = 699$

The lie is _____ because _____

True answer _____

a. $120 - 60 = 60$

b. $435 - 145 = 190$

c. $629 - 347 = 282$

The lie is _____ because _____

True answer _____

Two Truths and a Lie – Subtraction

a. 467	b. 804	c. 673
$\begin{array}{r} - 285 \\ 467 \\ \hline \end{array}$	$\begin{array}{r} - 643 \\ 804 \\ \hline \end{array}$	$\begin{array}{r} - 101 \\ 673 \\ \hline \end{array}$
<u>182</u>	<u>241</u>	<u>572</u>

The lie is _____ because _____

True answer _____

a. 531	b. 673	c. 318
$\begin{array}{r} - 31 \\ 531 \\ \hline \end{array}$	$\begin{array}{r} - 101 \\ 673 \\ \hline \end{array}$	$\begin{array}{r} - 118 \\ 318 \\ \hline \end{array}$
<u>221</u>	<u>572</u>	<u>200</u>

The lie is _____ because _____

True answer _____

a. 489	b. 367	c. 490
$\begin{array}{r} - 138 \\ 489 \\ \hline \end{array}$	$\begin{array}{r} - 207 \\ 367 \\ \hline \end{array}$	$\begin{array}{r} - 100 \\ 490 \\ \hline \end{array}$
<u>351</u>	<u>160</u>	<u>300</u>

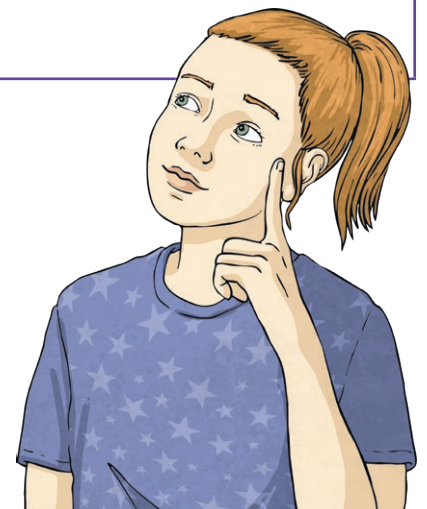
The lie is _____ because _____

True answer _____

a. 963	b. 313	c. 999
$\begin{array}{r} - 399 \\ 963 \\ \hline \end{array}$	$\begin{array}{r} - 101 \\ 313 \\ \hline \end{array}$	$\begin{array}{r} - 100 \\ 999 \\ \hline \end{array}$
<u>564</u>	<u>212</u>	<u>888</u>

The lie is _____ because _____

True answer _____



Two Truths and a Lie – Subtraction

- a. Jack started with 125 marbles and he was sharing his huge collection with his sister. He gave 80 to his sister and now has 45 left.
- b. Lily went to the football with \$20. She spent \$11.25 on lunch. She now has \$9.75 left.
- c. Our family drove 983km in 2 days to get to our holiday. On day 1 we drove 523km and on day 2 we drove 460km.

The lie is _____ because _____

True answer _____

- a. Fred and Bob measured their bodies. The difference was 5cm. Fred was 125cm tall and Bob was 120cm tall.
- b. 190 cows went to the local market. 127 were sold and the farmer went home with 63.
- c. Thomas and Joseph were doing a walk-a-thon. Thomas walked 54km and Joseph walked 67km. The difference is 23.

The lie is _____ because _____

True answer _____

- a. In year 3 and 4 there are 138 students. The 68 year 3 students go on a trip and leave the 78 year 4 students at school.
- b. The library had 947 books. There are 173 borrowed out, leaving 774 on the shelf.
- c. The school orders 870 sausages for the sports carnival lunch. 654 were eaten, leaving 216 left over.

The lie is _____ because _____

True answer _____

- a. I bought 250g of berries to make jam. I used 170g and have 80g left over.
- b. On the weekend Jacob spent 113 minutes on his homework and Alisha spent 141 minutes on hers. Alisha spent 30 minutes more doing homework than Jacob.
- c. A pizza shop makes 280 bases for the evening. They make and sell 253 pizzas. They had 27 bases left over.

The lie is _____ because _____

True answer _____

Answers

a. $850 - 220 = 630$

b. $735 - 145 = 610$

c. $699 - 199 = 500$

The lie is **B** because **30 was subtracted from 40, not 40 from 30 which needed tens borrowed from the hundreds.**

True answer **590**.

a. $720 - 120 = 620$

b. $450 - 390 = 60$

c. $650 - 350 = 300$

The lie is **A** because **100 was subtracted not 120. 20 more need to be subtracted.**

True answer **600**.

a. $145 - 144 = 1$

b. $865 - 220 = 645$

c. $1000 - 299 = 699$

The lie is **C** because **301 was subtracted. Instead of adding a 1 after subtracting the hundreds, another 1 was subtracted.**

True answer **701**.

a. $120 - 60 = 60$

b. $435 - 145 = 190$

c. $629 - 347 = 282$

The lie is **B** because **245 was subtracted which is 100 too many.**

True answer **290**.

a. 467	b. 804	c. 673
$\begin{array}{r} -285 \\ 182 \end{array}$	$\begin{array}{r} -643 \\ 241 \end{array}$	$\begin{array}{r} -101 \\ 572 \end{array}$

The lie is **B** because **0 was subtracted from 40 rather than 40 subtracted from zero and regrouping from the hundreds.**

True answer **161**.

a. 531	b. 673	c. 318
$\begin{array}{r} -31 \\ 221 \end{array}$	$\begin{array}{r} -101 \\ 572 \end{array}$	$\begin{array}{r} -118 \\ 200 \end{array}$

The lie is **A** because **the tens and one being subtracted were placed in the tens and hundreds column.**

True answer **500**.

a. 489	b. 367	c. 490
$\begin{array}{r} -138 \\ 351 \end{array}$	$\begin{array}{r} -207 \\ 160 \end{array}$	$\begin{array}{r} -100 \\ 300 \end{array}$

The lie is **C** because **190 was subtracted not 100. There was nothing to subtract in the tens column.**

True answer **390**.

a. 963	b. 313	c. 999
$\begin{array}{r} -399 \\ 564 \end{array}$	$\begin{array}{r} -101 \\ 202 \end{array}$	$\begin{array}{r} -100 \\ 888 \end{array}$

The lie is **C** because **1 value was taken from each number 1 one, 1 ten and 1 hundred.**

True answer **899**.

Answers

- a. Jack started with 125 marbles and he was sharing his huge collection with his sister. He gave 80 to his sister and now has 45 left.
- b. Lily went to the football with \$20. She spent \$11.25 on lunch. She now has \$9.75 left.**
- c. Our family drove 983km in 2 days to get to our holiday. On day 1 we drove 523km and on day 2 we drove 460km.

The lie is **B** because there is an extra dollar change.

True answer **\$8.75**.

- a. Fred and Bob measured their bodies. The difference was 5cm. Fred was 125cm tall and Bob was 120cm tall.
- b. 190 cows went to the local market. 127 were sold and the farmer went home with 63.
- c. Thomas and Joseph were doing a walk-a-thon. Thomas walked 54km and walked Joseph 67km. The difference is 23.**

The lie is **C** because **an extra 10km was found on the difference.**

True answer **13km**.

- a. In year 3 and 4 there are 138 students. The 68 year 3 students go on a trip and leave the 78 year 4 students at school.**
- b. The library had 947 books. There are 173 borrowed out leaving 774 on the shelf.
- c. The school orders 870 sausages for the sports carnival lunch. 654 were eaten leaving 216 left over.

The lie is **A** because **the 8 ones were not subtracted from the amount of year 3 students.**

True answer **70**.

- a. I bought 250g of berries to make jam. I used 170g and have 80g left over.
- b. On the weekend Jacob spent 113 minutes on his homework and Alisha spent 141 minutes on hers. Alisha spent 30 minutes more doing homework than Jacob.**
- c. A pizza shop makes 280 bases for the evening. The make and sell 253 pizzas. They had 27 bases left over.

The lie is **B** because **the answer was either counted up or down in tens only.**

True answer **28 minutes**.