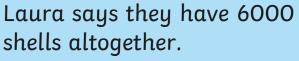
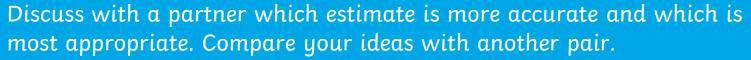


How Accurate Is Your Estimate?

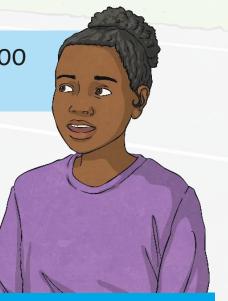
Laura has a collection of 3098 shells. Fatima has a collection of 2683 shells.



Fatima says they have 5800 shells altogether.







Check With an Estimate

Alfie has completed the following calculations. Fatima spots some of the answers are incorrect by estimating. Which answers can you spot are incorrect by estimating the answer? Discuss your ideas with a partner.



4826 + 2673 = 7899

2098 + 783 = 2851

7803 - 562 = 7241

4193 - 3827 = 1766

7499 estimate 7500

2881 estimate 2880

correct

366 estimate 400 or 370



Check Using the Inverse

Fatima, Laura and Alfie each check the calculation 5083 + 3682 = 8765 using the inverse. Identify the errors each has made and discuss your ideas with a partner.

Fatima: 8765 + 5083

Should be a subtraction

Alfie: 5083 - 3682

Should be 8765 - 5083 or 8765 - 3682

Laura: 8756 - 5083

should be 8765

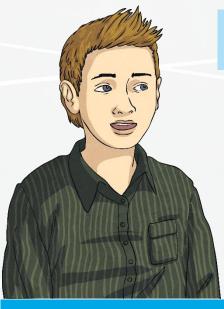






Checking Addition

Alfie says that he always checks addition calculations using an inverse subtraction. Laura prefers to reverse the addition and repeat the calculation.



2953 + 1604 = 4557

Alfie: 4557 - 1604 =

Laura: 1604 + 2953 =

Discuss the advantages and disadvantages of each method.



The inverse subtraction is often more difficult than addition and therefore more open to mistakes.

Repeating a calculation can mean mistakes aren't spotted, although reversing the numbers can help with this.



