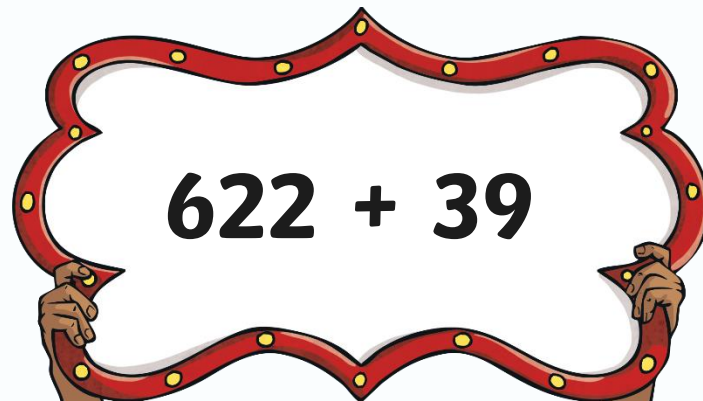




Estimate the
answer to:

A cartoon illustration of a circus ringmaster with a mustache, wearing a black bowler hat, a white shirt, a red bow tie, and a red and orange striped vest. He is holding a large, red, scalloped-edged sign with yellow dots around its border. The sign contains the equation $622 + 39$.
$$622 + 39$$

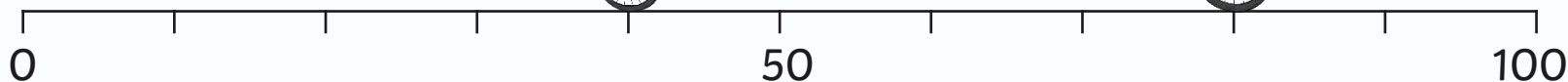
622 is near to 620

39 is near to 40

$620 + 40 = 660$



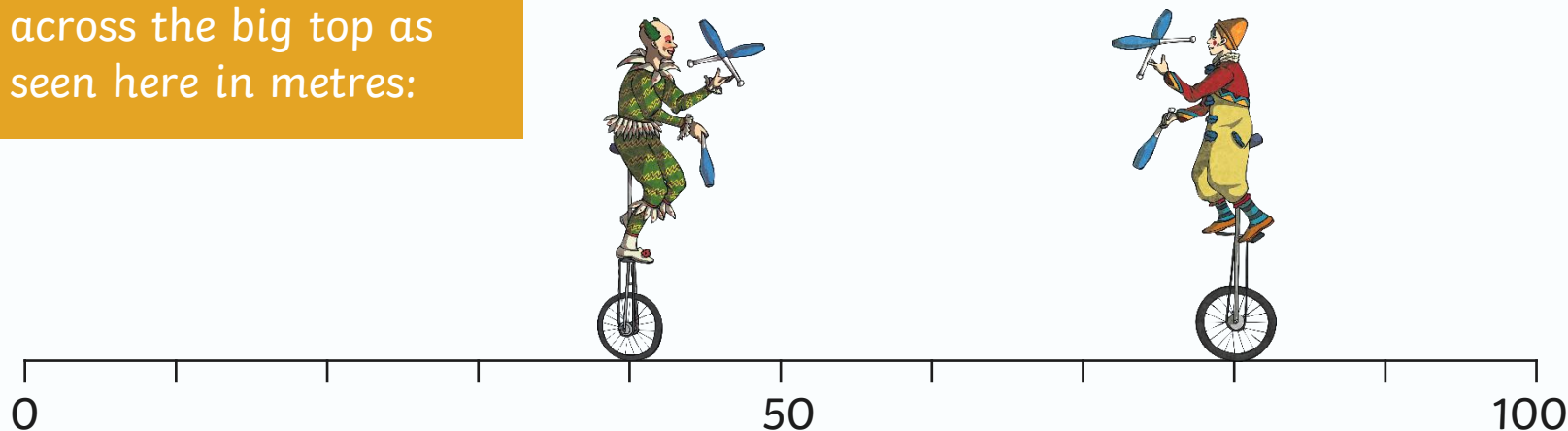
Two clowns riding unicycles are positioned at different distances across the big top as seen here in metres:



Estimate how far apart they are from each other in metres.



Two clowns riding unicycles are positioned at different distances across the big top as seen here in metres:



Estimate how far apart they are from each other in metres.

40 metres



100

110

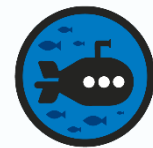
90

120

The circus uses 78 juggling balls in the opening act and 31 in the final act.

Which is the best estimate for the total number used?



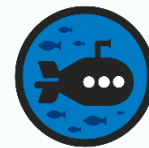


Round 78 up to 80
Round 31 down to 30
 $80 + 30 = 110$

The circus uses 78 juggling balls in the opening act and 31 in the final act.

Which is the best estimate for the total number used?





Which of the following calculations could have an answer of roughly 220?

$$312 - 82$$

$$209 + 28$$

$$299 - 78$$

Step 1: Round the first number in the calculation

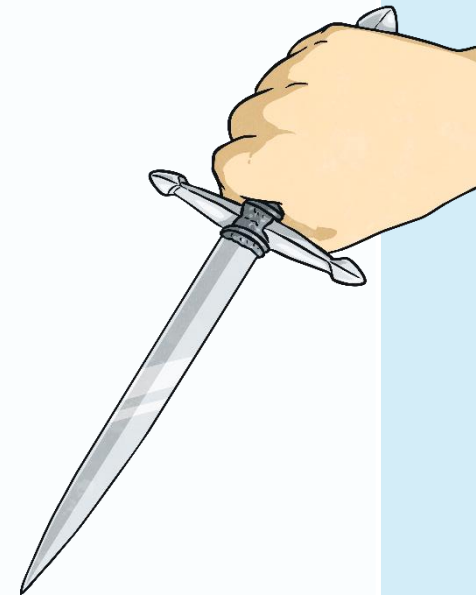
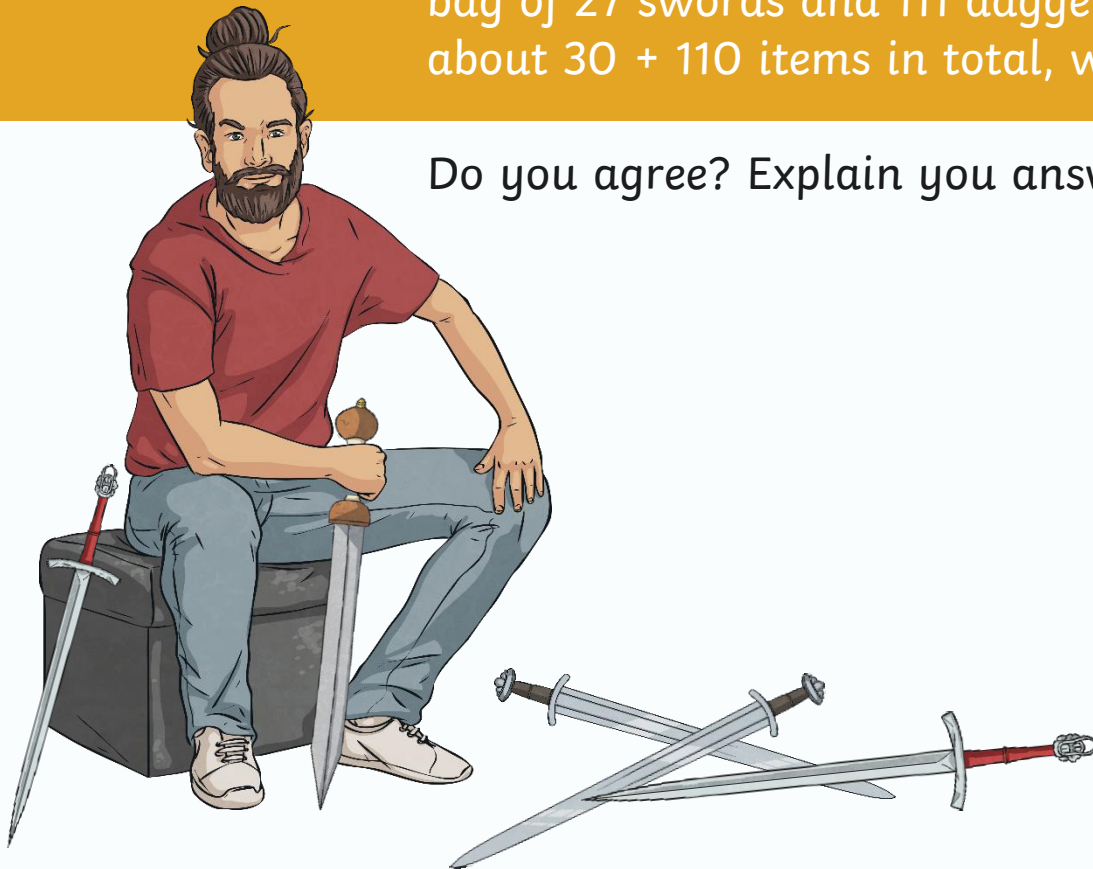
Step 2: Round the second number in the calculation.

Step 3: Complete the calculation with the rounded numbers.



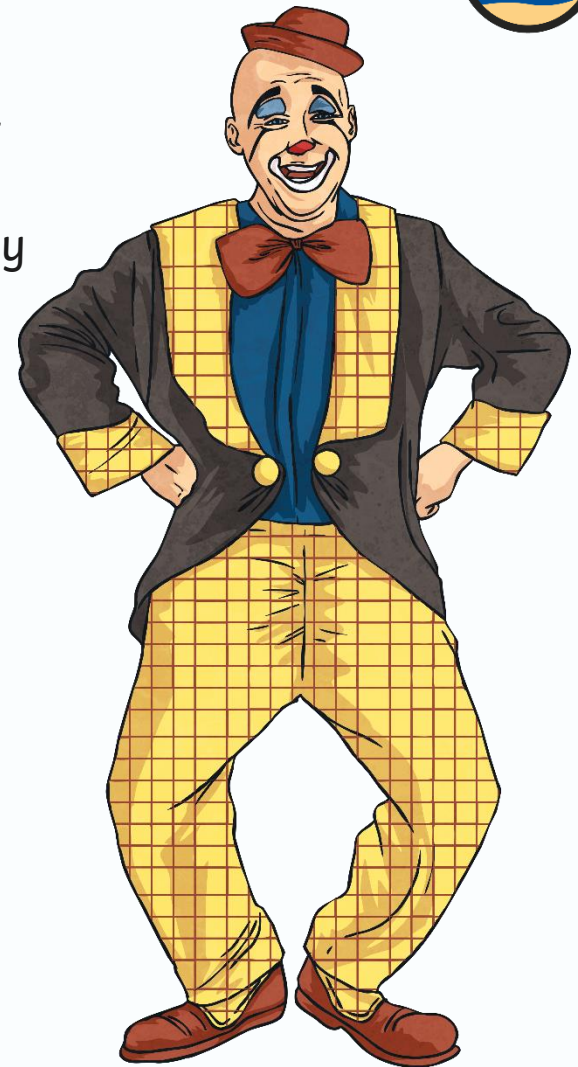
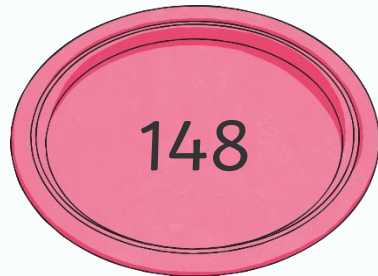
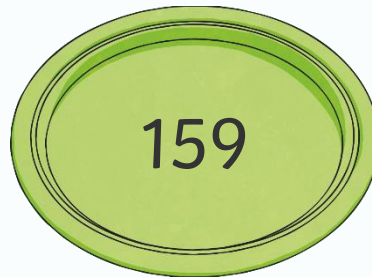
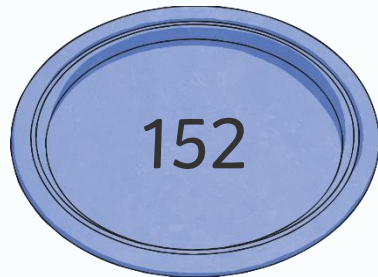
The sword swallower works out that with his bag of 27 swords and 111 daggers, that he has about $30 + 110$ items in total, which is 140.

Do you agree? Explain your answer.





Which packs of paper plates combined will give the clowns roughly 290 plates for their custard pies?



Estimating addition ...

How could we use rounding to make an *Estimate* answer for these questions ?

$$31 + 12 =$$

$$431 + 129 =$$

$$1939 + 4529 =$$

Estimating subtraction

How could we use rounding to make an *Estimate* answer for this question ?

$$31 - 12 =$$

$$431 - 129 =$$

$$4529 - 1939 =$$