



Maths

Addition and Subtraction

Addition and Subtraction Problems Crossing 10



twinkl

Aim

- To solve addition and subtraction problems crossing ten.

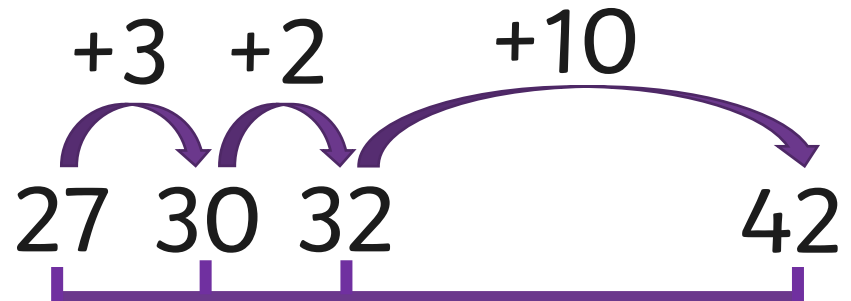
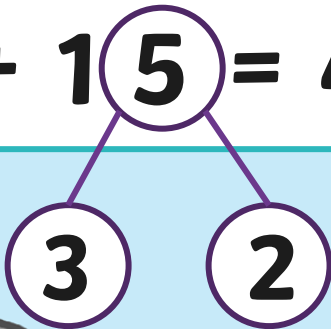
Success Criteria

- I can solve addition problems crossing ten.
- I can solve subtraction problems crossing ten.
- I can select strategies to solve addition and subtraction problems crossing ten.

Remember It



$$27 + 15 = 42$$



How can we use a number line to find the answer?

We found the nearest ten by partitioning the ones that we were adding. Then we added the rest of the ones and the tens.

Remember It



$$\begin{array}{c} \textcircled{38} + \textcircled{23} = 61 \\ \swarrow \quad \searrow \quad \swarrow \quad \searrow \\ \textcircled{30} \quad \textcircled{8} \quad \textcircled{20} \quad \textcircled{3} \end{array}$$

Tens	Ones

$$30 + 20 = 50$$

$$8 + 3 = 11$$

$$50 + 11 = 61$$

How can we use place value counters to find the answer?

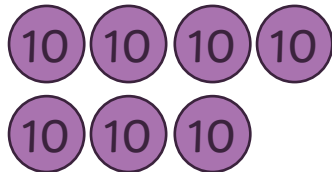
We partitioned the numbers into ones and tens then added them.

Remember It

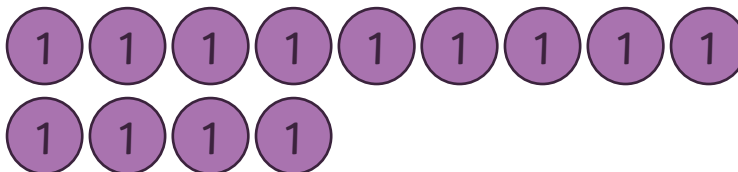


$$49 + 34 = 83$$

Tens



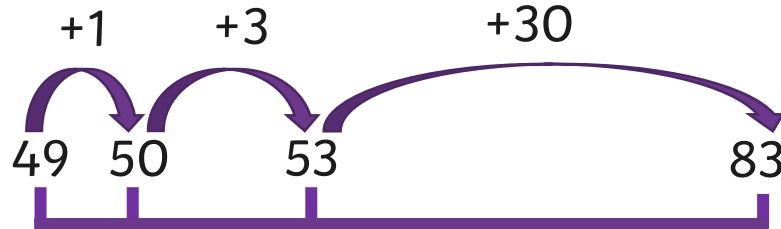
Ones



$$40 + 30 = 70$$

$$9 + 4 = 13$$

$$70 + 13 = 83$$



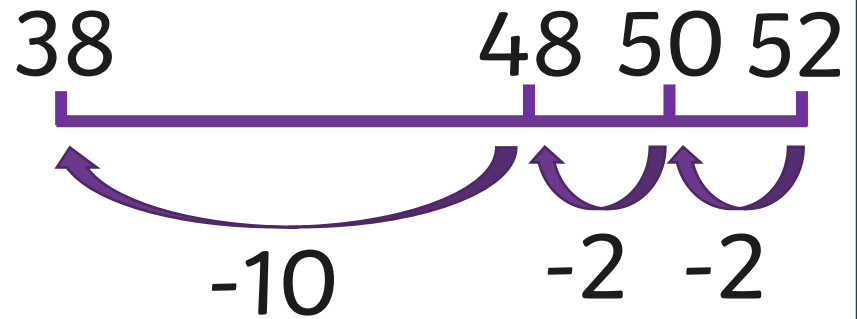
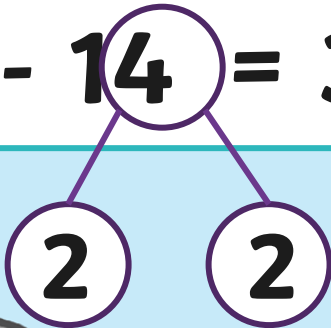
Pick your favourite strategy to find the answer.

Do you know another way to find the answer?

Remember It



$$52 - 14 = 38$$



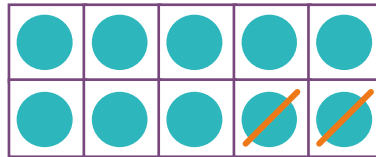
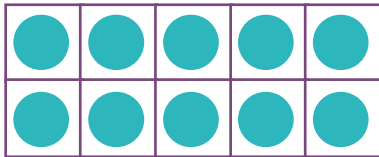
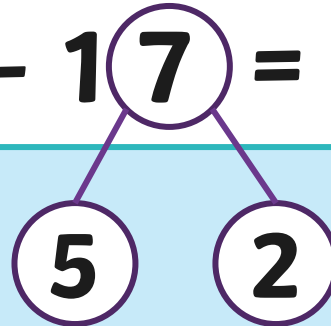
How can we use a number line to find the answer?

We found the nearest ten by partitioning the ones that we were subtracting. Then, we subtracted the rest of the ones and the tens.

Remember It



$$35 - 17 = 18$$



How can we use ten-frames to find the answer?

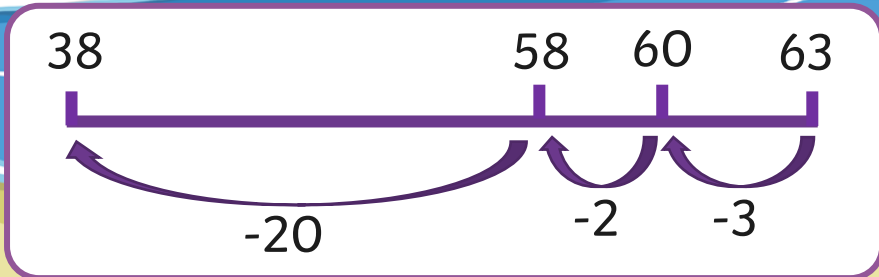
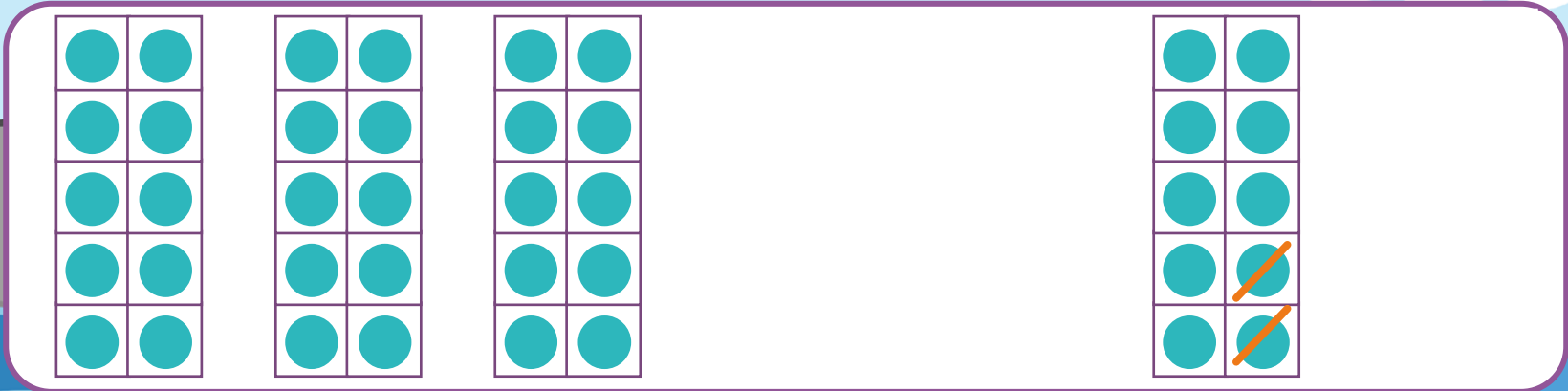
We subtracted 7 ones by crossing out 5 counters on the incomplete ten-frame, then we crossed out the next 2. We crossed out a set of 10 to subtract 17 altogether.



Remember It



$$63 - 25 = 38$$



Do you know another way to find the answer?

Pick your favourite strategy to find the answer.

Where Is Captain Jack?



Choose a square and solve the puzzle on the scroll.

Click on the scroll to reveal the answer once you have solved the puzzle.
Click on the answer square to look for what is hidden there.

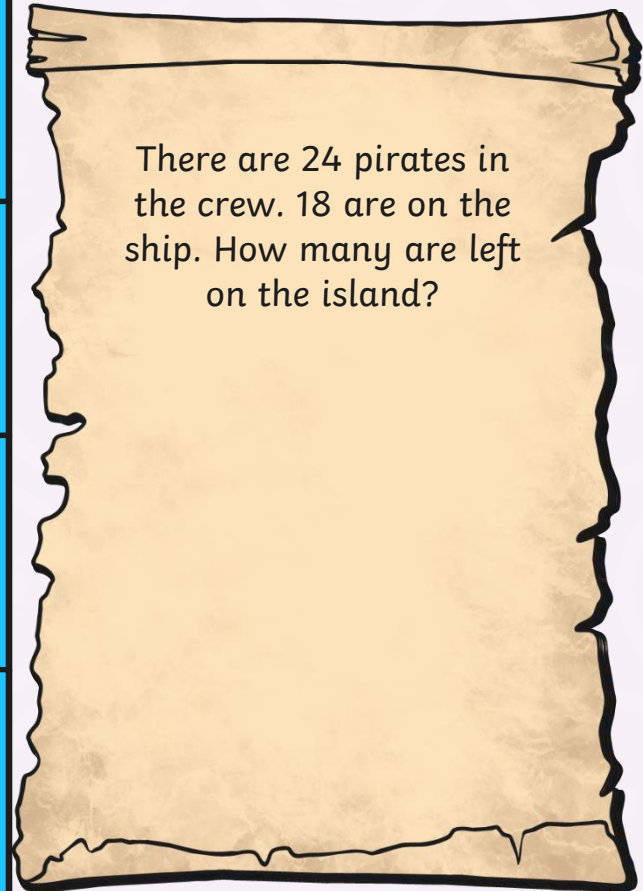
Who can find Captain Jack's hiding place?



Where Is Captain Jack?



?	?	?	?
?	?	?	?
?	?	?	?
?	?	?	?



Mutiny!



There's been a mutiny on the Black Sails.

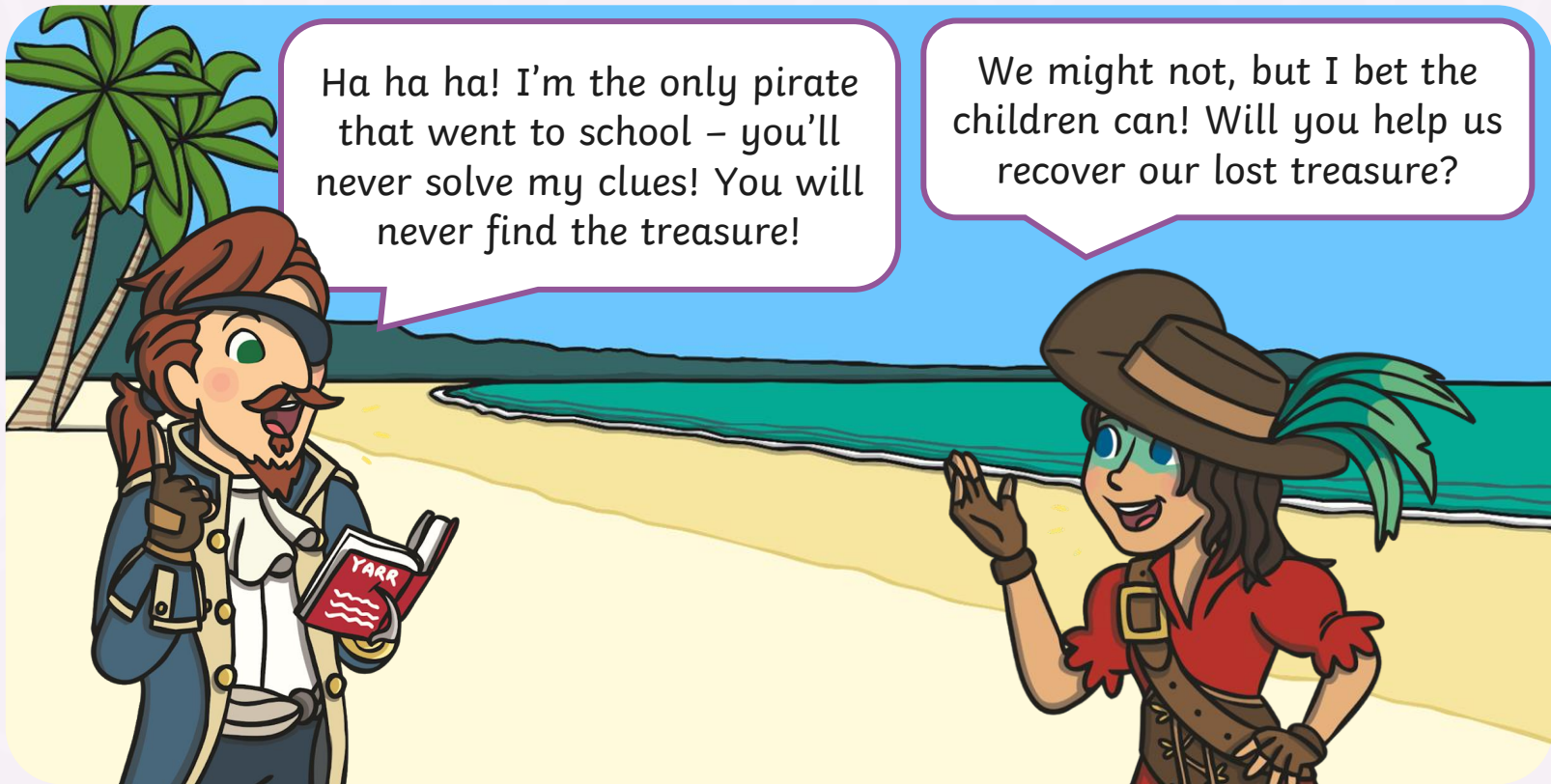
Redbeard has run off with all the treasure and buried it somewhere on the island!



Mutiny!



The pirates have captured him but he's refusing to tell them where the treasure is. All they can find is a map and some clues.



Mutiny!



Hi there, we've come to help you. These are tricky clues. It looks as though we'll have to use all of our problem-solving skills!

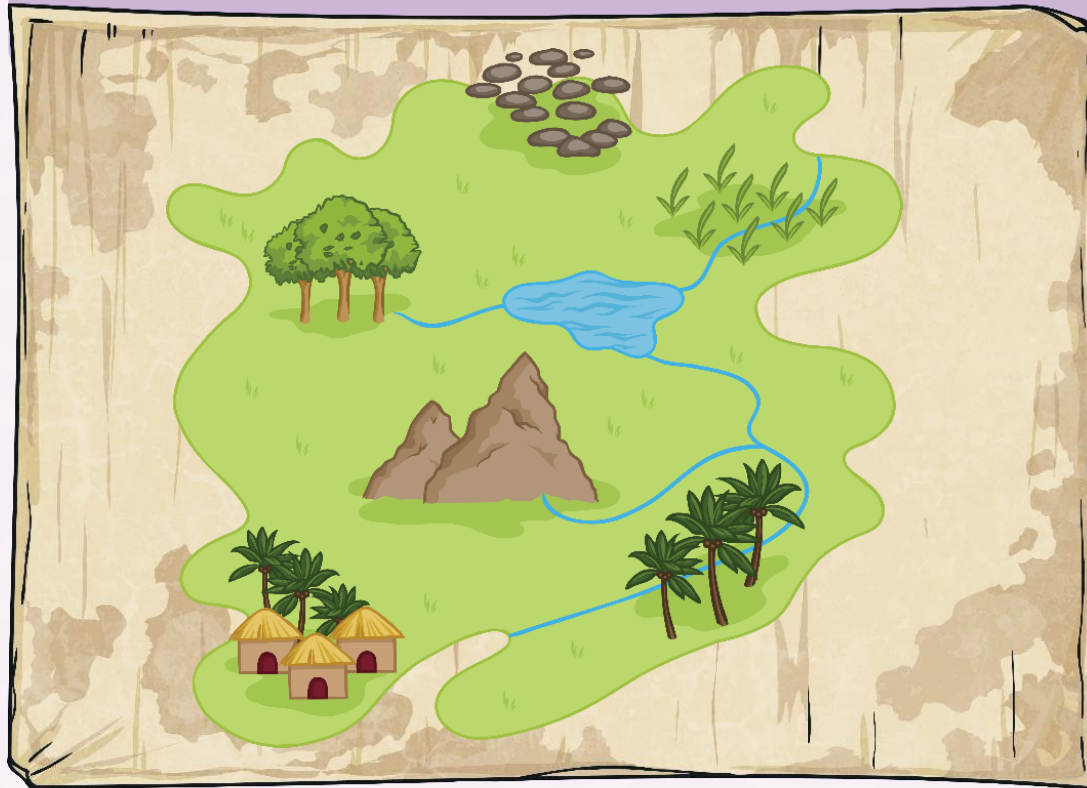
It looks like we have to solve every challenge to find the treasure.



To the Rescue!



Here's the treasure map!
Let's try the first clue.



To the Rescue!



The first clue.

I had 31 jewels in my treasure chest. I took 14 out and hid them somewhere else.

How many coins are left in Redbeard's treasure chest?



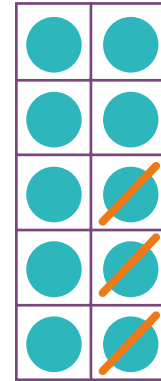
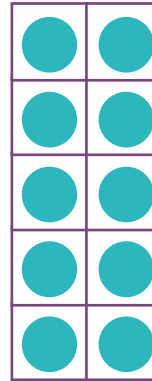
To the Rescue!



$$31 - 14 = 17$$

The pirates could use different strategies to solve different challenges.

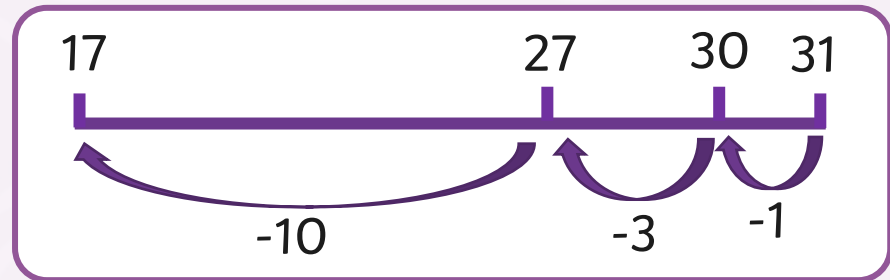
They could solve this with ten-frames.



To the Rescue!



$$31 - 14 = 17$$



Or number lines.

Which strategy would you choose?

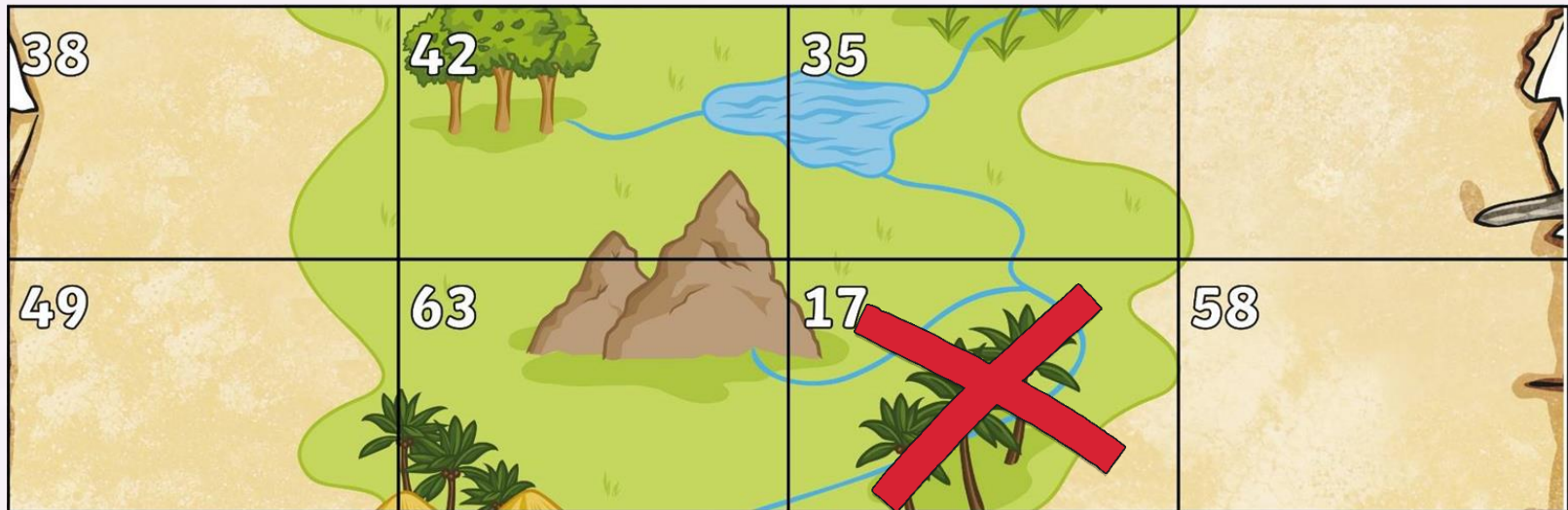


To the Rescue!



We know the treasure is not in square 17, so we can cross it out.

When we have solved all the puzzles, we will know where to dig!



Land Ahoy



Can you solve all the puzzles to find where the treasure is hidden?
Think about which strategies will help you.

Land Ahoy!

To solve addition and subtraction problems crossing ten.

The pirates have landed on Treasure Island. Can you help them to solve the puzzles to find out where Redbeard has hidden his treasure? Solve each problem and cross out the square on the map that shows the answer. The treasure can be found in the remaining square. Show your working in as many ways as you can and take photos so the pirates can learn what to do!



Clues

26 pirates were on the deck and 16 were in the cabins. How many pirates were there altogether?

The pirates caught 23 fish but 15 jumped out of the net. How many fish were left?

The pirates had 34 pies. They ate 15. How many pies do they still have?

Redbeard had 49 coins in a box and 16 coins in a bag. How many coins did he have in total?

There were 36 rats on the ship. The ship's cat chased 12 away. How many rats were still on the ship?



Land Ahoy!

Can you help them to solve the puzzles to find out where Redbeard has hidden his treasure? Solve each problem and cross out the square on the map that shows the answer. The treasure can be found in the remaining square. Show your working in as many ways as you can and take photos so the pirates can learn what to do!



Clues

The pirates spent £42 on food. They paid with a £50 note. How much change did they get?

There were 52 jewels in the treasure chest. Now there are 28. How many jewels are missing?



Land Ahoy!

Can you help them to solve the puzzles to find out where Redbeard has hidden his treasure? Solve each problem and cross out the square on the map that shows the answer. The treasure can be found in the remaining square. Show your working in as many ways as you can and take photos so the pirates can learn what to do!



Clues

The pirates hid 71 coins in the treasure chest. They found 48 coins in the chest. How many coins do they need to find?

The pirates saw 64 stars in the sky. A cloud hid some of them. How many stars can only see if the cloud goes away?

The pirates found 38 gold coins and 28 silver coins in the treasure chest. How many coins did they find altogether?

The pirates had 95 jewels. They kept 48 in the treasure box and the rest in the safe. How many jewels were in the safe?

The pirates spent £53 on a new flag and bell for the ship. The flag cost £15. How much did the bell cost?

The ship's cat found 59 rats in the galley and 35 rats in the cabins. How many rats did the ship's cat find in total?



Diving into Mastery

Dive in by completing your own activity!



Subtract Two 2-Digit Numbers, Crossing Ten

Help the pirates solve the problems.

Go 28 steps forward then 13 steps right.

How many steps lead to the treasure?

I had 52 coins. I spent 16 on a new hat.

How many coins do I still have?

17 gems

15 gems

How many gems have I got altogether?

There were 54 coins in the bag, but 25 fell out.

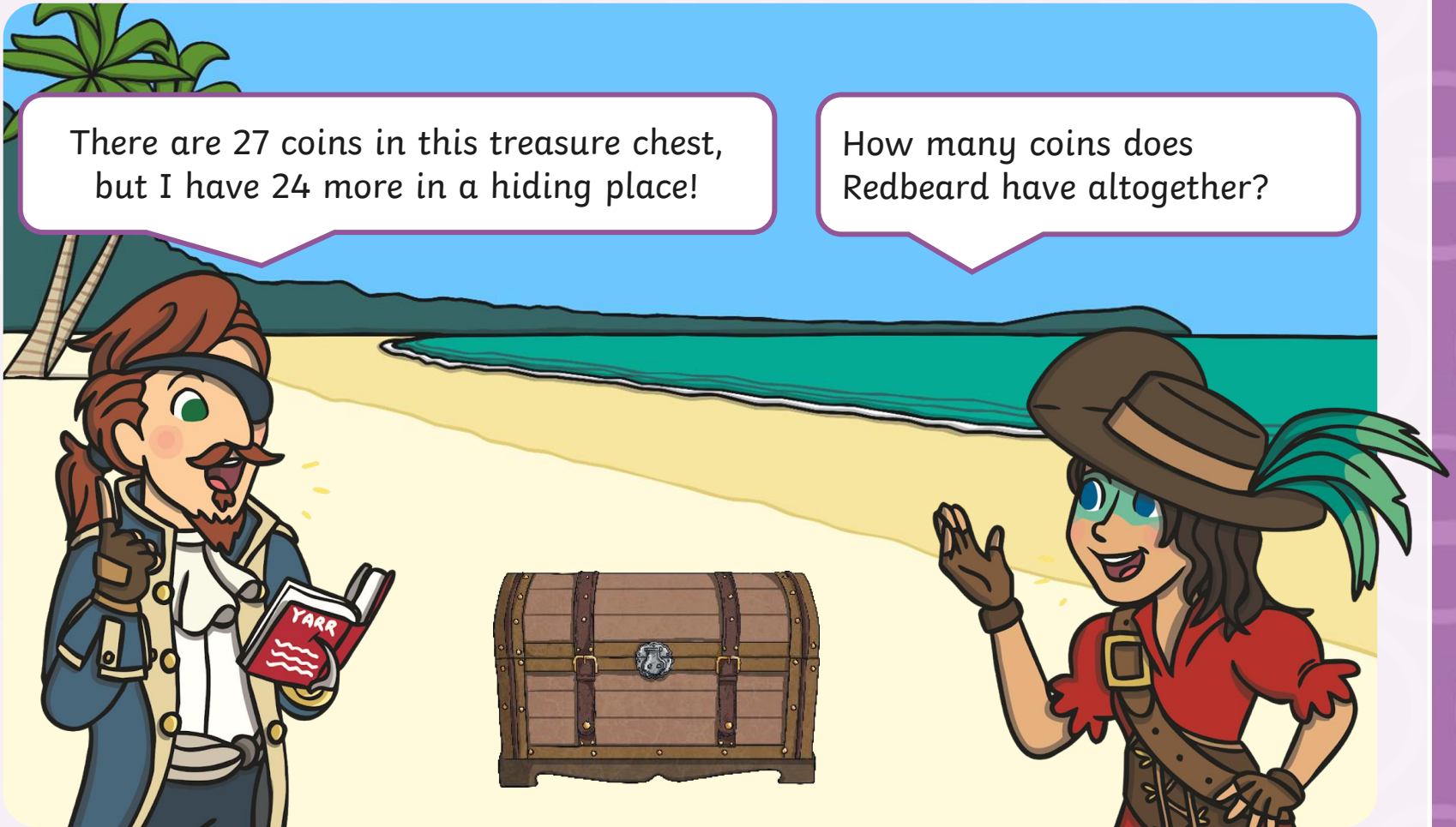
How many are left?

Redbeard's Last Challenge



There are 27 coins in this treasure chest, but I have 24 more in a hiding place!

How many coins does Redbeard have altogether?

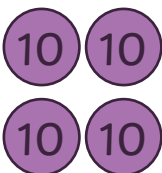


Redbeard's Last Challenge

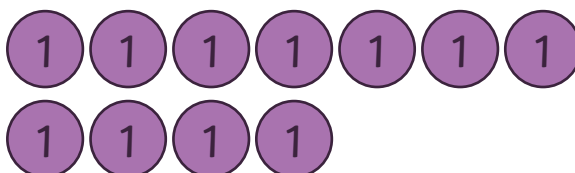


$$27 + 24 = 51$$

Tens



Ones



$$20 + 20 = 40$$

$$7 + 4 = 11$$

$$40 + 11 = 51$$



We could use place value counters to solve this.

Redbeard's Last Challenge



$$27 + 24 = 51$$



We could use place value counters or number lines to solve this.

Which strategy did you choose?
Or did you find another way to reach the answer?



Aim



- I can solve addition and subtraction problems crossing ten.

Success Criteria

- I can solve addition problems crossing ten.
- I can solve subtraction problems crossing ten.
- I can select strategies to solve addition and subtraction problems crossing ten.

