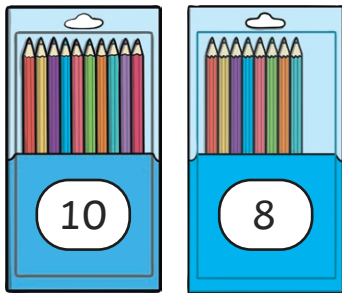# Charley Cheat

To use the inverse relationship to check calculations.

Write an inverse calculation to find out whether you are dealing with Charley Cheat or Honest Hamish! Use equipment to prove your thinking.

10 + 8 = 16

16 pencils in total.

16 - _____ = _____

Honest Hamish   Charley Cheat

20p - 15p = 5p

You need 5p change.

5p + _____ = _____

Honest Hamish   Charley Cheat

I had 12 points and then I got 4 more points. I now have a total of 15 points.

15 - _____ = _____

Honest Hamish   Charley Cheat

16 points

We had 16 points but we lost 4 points for talking. We now have 6 points.

6 + _____ = _____

Honest Hamish   Charley Cheat

Charley Cheat

Can you find a way for Honest Hamish to get through the maze? Honest Hamish can only travel on the correct calculations!

Check the calculations with an inverse to find his route.

Start			
15 - 5 = 10	6 - 2 = 3	15 - 5 = 20	7 - 4 = 4
14 - 4 = 10	16 + 2 = 18	12 + 2 = 14	13 + 5 = 15
15 - 5 = 14	12 + 8 = 19	10 - 4 = 6	19 - 2 = 17
19 + 1 = 18	16 + 3 = 20	7 + 13 = 19	14 + 2 = 16
			Finish

Answers

Write an inverse calculation to find out whether you are dealing with Charley Cheat or Honest Hamish! Use equipment to prove your thinking.

<table>
<tr><td>

10 + 8 = 16

16 pencils in total.

16 - __8__ = __8__

Charley Cheat

</td><td>

20p - 15p = 5p

You need 5p change.

5p + __15p__ = __20p__

Honest Hamish

</td></tr>
<tr><td>

I had 12 points and then I got 4 more points. I now have a total of 15 points.

15 - __4__ = __11__

Charley Cheat

</td><td>

We had 16 points but we lost 4 points for talking. We now have 6 points.

6 + __4__ = __10__

Charley Cheat

</td></tr>
</table>

Can you find a way for Honest Hamish to get through the maze? Honest Hamish can only travel on the correct calculations!

Check the calculations with an inverse to find his route.

15 - 5 = 10	6 - 2 = 3	15 - 5 = 20	7 - 4 = 4
14 - 4 = 10	16 + 2 = 18	12 + 2 = 14	13 + 5 = 15
15 - 5 = 14	12 + 8 = 19	10 - 4 = 6	19 - 2 = 17
19 + 1 = 18	16 + 3 = 20	7 + 13 = 19	14 + 2 = 16

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Charley Cheat

To use the inverse relationship to check calculations.

Write an inverse calculation to find out whether you are dealing with Charley Cheat or Honest Hamish! Use equipment to prove your thinking.

8 + 8 = 16

16 pencils in total.

Honest Hamish   Charley Cheat

9p
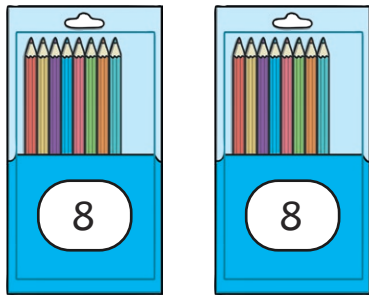
20p - 9p = 10p

You need 10p change.

Honest Hamish   Charley Cheat

I had 8 points and then I got 7 more points. I now have a total of 16 points.

Honest Hamish   Charley Cheat

8 points

We had 14 points but we lost 6 points for talking. We now have 8 points.

Honest Hamish   Charley Cheat

Charley Cheat

Can you find a way for Honest Hamish to get through the maze?
Honest Hamish can only travel on the correct calculations!

Check the calculations with an inverse to find his route.

Start			
16 - 7 = 9	16 - 12 = 3	5 + 10 = 14	15 - 6 = 8
14 - 10 = 4	6 + 12 = 16	2 + 15 = 16	3 + 9 = 10
15 - 8 = 7	12 + 8 = 19	20 - 14 = 4	13 - 5 = 5
9 + 7 = 16	16 + 4 = 20	16 + 3 = 19	4 + 8 = 12

Finish

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Answers

Write an inverse calculation to find out whether you are dealing with Charley Cheat or Honest Hamish! Use equipment to prove your thinking.

8 + 8 = 16 16 pencils in total. **16 - 8 = 8** **Honest Hamish**	20p - 9p = 10p You need 10p change. **10p + 9p = 19p** **Charley Cheat**
I had 8 points and then I got 7 more points. I now have a total of 16 points. **16 - 7 = 9** **Charley Cheat**	We had 14 points but we lost 6 points for talking. We now have 8 points. **8 + 6 = 14** **Honest Hamish**

Can you find a way for Honest Hamish to get through the maze?
Honest Hamish can only travel on the correct calculations!
Check the calculations with an inverse to find his route.

16 - 7 = 9	16 - 12 = 3	5 + 10 = 14	15 - 6 = 8
14 - 10 = 4	6 + 12 = 16	2 + 15 = 16	3 + 9 = 10
15 - 8 = 7	12 + 8 = 19	20 - 14 = 4	13 - 5 = 5
9 + 7 = 16	16 + 4 = 20	16 + 3 = 19	4 + 8 = 12

Charley Cheat

To use the inverse relationship to check calculations.

Write an inverse calculation to find out whether you are dealing with Charley Cheat or Honest Hamish! Use equipment to prove your thinking.

8 **8**

16 pencils in total.

Honest Hamish   Charley Cheat

9p
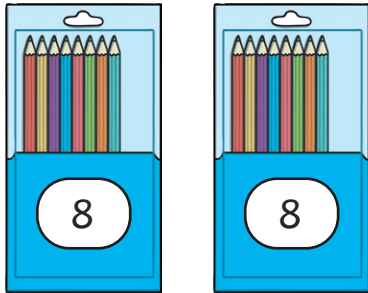
You will have 10p left.

Honest Hamish   Charley Cheat

I had 16 marbles but I lost 9. I will take 7 marbles home.

Honest Hamish   Charley Cheat

We scored 3 points in the 1st game, 4 in the 2nd and 6 in the 3rd, so we have 14 points altogether.

Honest Hamish   Charley Cheat

Charley Cheat

Charley Cheat has just escaped through the maze. His route took him across incorrect calculations.

Can you find his route and write the correct inverse calculations so he can't escape again?

Start

5 + 15 = 20	16 - 7 = 10	14 - 6 = 20
20 - 9 = 11	13 + 5 = 18	7 + 12 = 18
19 - 4 = 15	15 - 5 = 5	20 - 16 = 5
9 + 11 = 19	4 + 12 = 18	12 + 6 = 18
4 + 14 = 19	9 + 3 = 12	14 - 3 = 11

Finish

Answers

Write an inverse calculation to find out whether you are dealing with Charley Cheat or Honest Hamish! Use equipment to prove your thinking.

16 pencils in total.

16 - 8 = 8
Honest Hamish

You will have 10p left.

10p + 9p = 19p
Charley Cheat

I had 16 marbles but I lost 9. I will take 7 marbles home.

16 - 9 = 7
Honest Hamish

We scored 3 points in the 1ˢᵗ game, 4 in the 2ⁿᵈ and 6 in the 3ʳᵈ, so we have 14 points altogether.

14 - 6 = 12
12 - 4 = 8
8 - 3 = 2
Charley Cheat

Charley Cheat has just escaped through the maze. Can you find his route and write the correct inverse calculations so he can't escape again?

5 + 15 = 20	16 - 7 = 10 **10 + 7 = 17**	14 - 6 = 20 **20 + 6 = 26**
20 - 9 = 11	13 + 5 = 18	7 + 12 = 18 **18 - 12 = 6**
19 - 4 = 15	15 - 5 = 5 **5 + 5 = 10**	20 - 16 = 5 **5 + 16 = 21**
9 + 11 = 19 **19 - 11 = 8**	4 + 12 = 18 **18 - 12 = 6**	12 + 6 = 18
4 + 14 = 19 **19 - 14 = 5**	9 + 3 = 12	14 - 3 = 11

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