Escape the Island - Extreme!
There has been a shipwreck and you have been washed ashore on a deserted island. All is not lost though. You find that you still have your compass and watch and some other useful items have also been washed up. With these items and some survival skills that you have learnt on your travels, you are confident you can stay alive... but can you ESCAPE THE ISLAND?

To survive and escape, you need to complete six challenges in order. After you have completed each challenge, click on me to move to the next one.

Good luck!
You’re thirsty after being washed up on the beach and decide to make fruit punch with some coconuts and fruit you have found and a measuring jug which has also been washed ashore.

You want to follow a recipe you remember your dad using, but you need to adjust it to make only enough for one person.

a) How much of each ingredient do you need?

b) How much punch do you make? (Give your answers in ml.)
You decide to try to catch some fish with a net you have found on the beach.

For every 3 edible fish you catch, you also catch 2 poisonous pufferfish.

a) After 2 hours, you have caught (and carefully thrown back) 18 pufferfish. How many edible fish have you caught?

b) If you caught 80 fish altogether, how many would be edible?
The Storm

You realise that there is a storm coming and decide to make a shelter. You use driftwood and rope which has washed up on the beach and palm leaves for the roof.

a) You start building at 13:28 and after 1.5 hours, you have completed a third of the shelter. If you continue working at the same rate, what time will the shelter be finished?

b) When half of the frame is completed, you realise that you have used $\frac{3}{4}$ of the original rope. If you have used 6m, how much extra rope will you need to find?
You decide to make some large fires in the hope that someone will see them and rescue you. You use 16 large rocks, 79 twigs and 48 logs to make your first fire.

a) How many of each will you need for 6 fires?

b) Once all six fires have been burning for an hour, you need to add an extra 4 large logs to each one every hour to keep them going. How many extra logs would you have to add to keep all the fires burning for another 24 hours?
The Cave

At the back of a cave you have found is a tunnel which you decide to explore. There are lots of twists, turns and side tunnels, so you use your compass and notepad to record your route so that you don’t get lost.

Some of your directions are washed away by water droplets falling on your paper.

Fill in the missing information on the route.

Walk 8 paces south and turn 90° anti-clockwise to face ____.
Walk 5 paces and turn ___° clockwise to face south-east.
Walk 9 paces, passing a small cavern on your left. Turn 90° clockwise to face ____.
Walk 16 paces and turn 45° anti-clockwise to face ____.
Walk 24 paces and turn 135° clockwise to face ____.
You find an old boat and decide to attempt an escape from the island. You patch up the boat as best you can, collect your belongings, some homemade oars, some food and drink and push the boat out into the sea.

You head north as you can see what you think may be land in the distance.

Unfortunately, the wind is blowing in the opposite direction. Every 2 minutes, you travel 12 metres forwards, but are blown back 2 metres.

If the land to the north is 2km away, how long will it take you to reach it?

Don’t forget that 1km = 1000m!
Did you escape?

Ask someone to check your answers. If you managed to answer all of them correctly, you have escaped. **Well done!**

If you got any of the questions wrong, don’t worry, you can go back and try again!