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Mans Roven analysis
Rocky: Zkm/hr = 30 mins/km
Sandy: 3 km/hr = 20 mins/km
Smooth: 5 km/hr = 12 mins/km
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50 % rocky = 2.5 km

20 10 sandy = 1 KM x zo min / Km = Zo min

30 % smooth: 1.5 km x 12 min / Km = 18 min

Expected Time:

= 75 + 20 + 18 = 113 mins

Roque Z 7km 40 1/2 rocky = 2.8 km

40 % sandy 2.8 km

x 12 min / Km = 10.8 To % smooth 1.4 km

Expected Time:

=84 +56 + 16. 8 =156.8 minutes

Lo 1/2 rocky = 0.6 km x 30 min/km= 18 min

50 10 sandy = 3 km x 20 min / km = 60 40 % smooth = 2.4 km x 12 min/km = 26.8 min we should pick

Expected Time:

= 18 -60 +28.8 = 106.6 minutes

## Route 1 . W Crater

Base: 113 minutes

intact (70 70) = save 20 mins, 97 mins

damaged (30 %) = add 15 mins, 128 mins

total expected time

route 3

pluk Route I for

updated routes

Roste 3 wi bridge

Basc: 106.6 minures

inter (40.70): sanc, 106.6 mins

damaged (60%): add 40 mins, 146.6 nins

total expected time

```
Rouse Z 7km

We 3/ milly 30 min/km = 210 min

WO 1/0 sandy x 20 min/km = 140 min

To 1/0 sandy x 12 min/km = 84 min

assume rost is sandy

yo 90 sandy x 20 min/km = 140 min

Expected Time:

= 56 +56 + 16.8 = 128.8 min utes
```

Probability Not Rocky

Sarellire Analysis

IF Rodry, it takes 156.8 minutes minimum

m aximum

(OD "A rocky x 30 min/km= 210 minutes maximum

Don't wait, other routes are taster