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| A | Levene's Test for Equality of Variances | t-test for Equality of Means |
| B-axis groups | N | Mean | Std. Deviation | Std. Error Mean |  | F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
| Lower | Upper |
| 1. Cobbles behind Chipembele Ridge. Counts 26,27 & 13 | 300 | 3.817 | 1.6948 | .0978 | Equal variances assumed | 23.600  | .000  | 5.282 | 798 | .000 | .5403 | .1023 | .3395 | .7411 |
|  2. Cobbles on the nw bank of the Luangwa. Counts 21,22,28,23 & 12 | 500 | 3.277 | 1.1900 | .0532 |  Equal variances not assumed | 4.851 | 477.060 | .000 | .5403 | .1114 | .3215 | .7592 |
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| B | Levene's Test for Equality of Variances | t-test for Equality of Means |
| B-axis groups | N | Mean | Std. Deviation | Std. Error Mean |  | F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |
| Lower | Upper |
|  1. Cobbles on the se side of the Luangwa. Counts 10 &31. | 200 | 3.172 | 1.2554 | .0888 | Equal variances assumed | .731  | .393  | -1.043 | 698 | .297 | -.1055 | .1012 | -.3041 | .0931 |
| 2.Conglomerates on the nw side of the Luangwa. Counts 28,21,22,12,& 23. | 500 | 3.277 | 1.1900 | .0532 | Equal variances not assumed | -1.019 | 349.756 | .309 | -.1055 | .1035 | -.3091 | .0981 |

Table 3b. Paired t-tests of b-axis cobble size measurements (A) between two groups on the north-western bank of the Luangwa River, one distant (behind Chipembele Ridge), and one proximal (near the Luangwa) showing a significant difference in the sizes of the clasts further away from the Luangwa; B compares cobble size on the south-east bank of the Luangwa River at the base of the Nchindeni Hills, with the cobbles on the north-west bank and shows no significant difference in size either side of the Luangwa River.