

| | Id | en | tify | / ai | n o | utl | lie | r a | nd | de | esc | rib | e t | he | e ef | fe | cts | of | re | m | ovi | ng | it | | |
|-----------------|-------|-------|------|-------|------|------|------|-----|------|------|-------|-----|------|-----|------|------|------|-----|-----|------|------|-----|----|-----|-----|
| Identi | fy th | ne c | utl | ier i | n th | ne c | lata | se | t; 2 | 6, 2 | 27, 3 | 39, | 32, | 33, | 79. | | | | | | | | | | |
| If the | outl | ier ' | wer | e re | emo | vec | d fr | om | the | e se | et, v | vou | ld t | he | mea | an i | ncr | eas | e o | r de | cre | ase | ? | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | 1 | ncr | eas | е | | | | | | | | | De | crea | se | | | | | | | |
| If the (4,25 | | | | | | | | rom | the | e d | ata | set | be | ow | , W(| oulc | d th | e m | ear | n in | crea | ase | or | dec | rea |
| | | | | 1 | ncr | eas | е | | | | | | | | | De | crea | se | | | | | | | |
| If the (31, 3 | | | | | | | | | the | e d | ata | set | be | ow | , W(| oulc | d th | e m | ear | n in | crea | ase | or | dec | rea |
| | | | | ı | ncr | eas | е | | | | | | | | | De | crea | se | | | | | | | |
| If the (100, | | | | | | | | | | | | | be | ow | , W(| oulc | d th | e m | ear | n in | crea | ase | or | dec | rea |
| | | | | ı | ncr | eas | е | | | | | | | | | De | crea | se | | | | | | | |
| If the (13, 1, | | | | | | ove | d fr | om | the | e d | ata | set | be | ow | , W(| oulc | d th | e m | ear | nin | crea | ase | or | dec | rea |
| | | | | | ncr | | • | | | | | | | | | Do | crea | | | | | | | | |



mathskills4kids

| Identi | fy an outlie | r and descr | ibe the et | ffects of rem | oving it |
|---------------------|---|----------------|----------------|-------------------|-------------------|
| Identify the ou | ıtlier in the data | set: 26, 27, 3 | 9. 32. 33. 79. | | |
| | | | | an increase or de | ecrease? |
| | dentify the out | | | | |
| Secondly, f | ind the mean v | vithout the ou | tlier and wit | h the outlier | |
| Mean with | outlier = 39.33 | | | | |
| Mean without | out outlier = 31. | 4 | | | |
| Finally, we con | npare the origi | nal mean and | the mean wi | ithout the outlie | |
| You will see th | at the mean w | ithout the out | ier is smalle | r than the origin | al mean. |
| So, it implies t | hat the mean v | vould decreas | e if the outli | er were removed | from the set. |
| | | | | | |
| | Increase | | | Decrease V | |
| If the outlier w | vere removed fr | om the data s | et below, wo | ould the mean in | crease or decreas |
| (4, 25, 27, 31; 3 | 39, 36, 36, 38) | | | | |
| | | | | | |
| | Increase | Y | | Decrease U | |
| If the outlier w | vere removed fr | om the data s | et below wo | ould the mean in | crease or decreas |
| | , 90, 40, 37, 41) | | | | |
| | , | | | | |
| | Increase | | | Decrease 💟 | |
| If the outlier w | vere removed fr | om the data s | et below, wo | ould the mean in | crease or decreas |
| | 80, 81, 60, 71, 6 | | | | |
| | Increase | | | Decrease | |
| | | | | | |
| If the outlier w | vere removed fr | om the data s | et below, wo | ould the mean in | crease or decreas |
| (13, 1, 1, 2, 3, 5, | , 4, 2, 1) | | | | |
| | | | | | |