

To make a portable rectangular cage for your pet lizard to run around outside, you rummage around your garage and find 36 feet of fencing. What are the possible whole-number dimensions for the cage?



Which dimensions would give the lizard the most freedom?

Your friend wants to race his lizard against yours. Are these dimensions still the best choice given the new purpose for your cage? If not, what dimensions would be the best for your race track?



To make a portable rectangular cage for your pet lizard to run around outside, you rummage around your garage and find 36 feet of fencing. What are the possible whole-number dimensions for the cage?



| | | | | | | | | | |
|--------|----|----|----|----|----|----|----|----|---|
| width | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| length | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |



Which dimensions would give the lizard the most freedom?

The 9' x 9' cage gives 36 ft² which gives the lizard largest area.

Your friend wants to race his lizard against yours. Are these dimensions still the best choice given the new purpose for your cage? If not, what dimensions would be the best for your race track?



The 1' x 17' cage does not offer as much area, but would direct the lizards down the track.

