

Sign Test – 1 or 2 Tailed?

For each of the following pairs of hypotheses, choose if the test will be one or two tailed

$H_0: \eta = 2\text{litres}$
 $H_1: \eta < 2\text{litres}$

☐ One-Tailed

☐ Two-Tailed

$H_0: \eta = 47\text{g}$
 $H_1: \eta \neq 47\text{g}$

☐ One-Tailed

☐ Two-Tailed

$H_0: \eta = 2.5\text{cm}$
 $H_1: \eta \neq 2.5\text{cm}$

☐ One-Tailed

☐ Two-Tailed

$H_0: \eta = 80\text{mins}$
 $H_1: \eta < 80\text{mins}$

☐ One-Tailed

☐ Two-Tailed

$H_0: \eta = 300\text{ml}$
 $H_1: \eta > 300\text{ml}$

☐ One-Tailed

☐ Two-Tailed

$H_0: \eta = 6.3\text{miles}$
 $H_1: \eta > 6.3\text{miles}$

☐ One-Tailed

☐ Two-Tailed

H_0 : The cats show no preference to the type of food purchased
 H_1 : The cats show a preference for 'Munchies' over 'Mescos own Brand'

☐ One-Tailed

☐ Two-Tailed

H_0 : Students show no preference for any option on the multiple choice quiz
 H_1 : Students show a preference for any option on the multiple choice quiz

☐ One-Tailed

☐ Two-Tailed

H_0 : Children show no preference to any of the coloured pictures
 H_1 : Children prefer the pictures which are colours 'red'

☐ One-Tailed

☐ Two-Tailed

H_0 : Parents show no preference to whether they attend the am or pm assembly
 H_1 : Parents prefer to attend the pm assembly

☐ One-Tailed

☐ Two-Tailed

H_0 : The machine shows no bias towards the chute in which it ejects the boxes
 H_1 : The machine shows bias towards chute 2 when ejecting the boxes

☐ One-Tailed

☐ Two-Tailed