Statistics Assessment

ACMSP250

Assessment   Navigator   Students   30 Min

T³
Teachers Teaching with Technology™
Professional Development from Texas Instruments

Name _____ Teacher _____ Score _____

Reaction times for dominant hand (100 students) – measured in seconds

0.46	0.43	0.46	0.25	0.37	0.4	0.39	0.4	0.34	0.34
0.82	0.14	0.29	0.67	0.46	0.38	0.36	0.5	0.7	0.37
0.4	0.44	0.53	0.53	0.5	0.41	0.45	0.33	0.41	0.41
0.4	0.54	0.4	0.38	1.96	0.44	0.32	0.42	0.78	0.38
0.73	0.42	0.35	1.444	1.115	0.28	0.36	0.75	0.44	0.34
0.35	0.36	0.42	0.36	0.51	0.34	0.49	0.5	0.38	0.44
0.27	0.77	0.34	0.37	0.43	0.32	0.33	0.75	0.31	0.3
0.38	0.31	0.48	0.42	0.35	0.39	0.39	0.34	0.46	0.25
0.45	0.36	0.43	0.39	0.29	0.39	0.41	0.41	0.43	0.6
0.56	0.56	0.43	0.36	0.28	0.39	0.74	0.34	0.45	0.31

Reaction times for non-dominant hand (100 students) – measured in seconds

0.42	0.4	0.42	0.4	0.37	1.9	0.47	0.55	0.36	0.32
0.64	0.33	0.26	0.39	0.69	0.4	0.32	0.41	0.71	0.45
0.57	0.46	0.46	0.53	0.4	0.41	0.42	0.39	0.18	0.41
1.7	0.46	0.42	0.38	0.46	0.49	0.48	0.5	0.67	0.41
0.62	0.45	0.42	0.4	1.05	1.5	0.39	0.71	0.54	0.45
0.51	0.34	0.53	0.08	0.65	0.31	0.45	0.42	0.45	1.2997
0.32	0.87	0.34	0.32	0.51	0.37	0.37	1.6	0.38	0.16
0.39	0.37	0.46	0.48	0.35	0.38	0.39	0.32	0.52	0.21
0.43	0.38	0.4	0.43	0.42	0.38	0.44	0.45	0.42	0.54
0.54	0.43	0.59	0.34	1.9	0.35	0.81	0.92	0.42	0.31

Data Source: Australian Bureau of Statistics
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Q.1.   What is the median reaction time for the dominant (dom) hand?

[Answer correct to two decimal places]

_____

Q.2.   What is the median reaction time for the non-dominant (non) hand?

[Answer correct to two decimal places]

_____

Q.3.   Which type of graph is most suitable for providing an immediate answer to questions 1 & 2?

a)   Boxplot   b)   Histogram   c)   Dot Plot   d)   Pie Chart   e)   None of these

Q.4.   Which reaction time interval is the **most common** amongst the **dominant** hand data?

a)   [0.2, 0.3)   b)   [0.3, 0.4)   c)   [0.4, 0.5)   d)   [0.5, 0.6)   e)   [0.6, 0.7)

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Q.5.   Which reaction time interval is the **most common** amongst the **non-dominant** hand data?

   a)   [0.2, 0.3)   b)   [0.3, 0.4)   c)   [0.4, 0.5)   d)   [0.5, 0.6)   e)   [0.6, 0.7)

Q.6.   Which type of graph is most suitable for providing an immediate answer to questions 4 & 5?

   a)   Boxplot   b)   Histogram   c)   Dot Plot   d)   Pie Chart   e)   None of these

Q.7.   The **non-dominant** hand data contains five data points in the interval [0.6, 0.7). They are:

   a)   {0.64, 0.64, 0.64, 0.65, 0.67}   b)   {0.64, 0.64, 0.65, 0.65, 0.67}

   c)   {0.64, 0.64, 0.65, 0.66, 0.67}   d)   {0.62, 0.64, 0.65, 0.67, 0.69}

   e)   {0.62, 0.62, 0.68, 0.69, 0.69}

Q.8.   Which reaction time does **not** occur in the **dominant** hand (dom) data?

   a)   0.56   b)   0.70   c)   0.71   d)   0.75   e)   0.82

Q.9.   Which type of graph is most suitable for providing an immediate answer to questions 7 & 8?

   a)   Boxplot   b)   Histogram   c)   Dot Plot   d)   Pie Chart   e)   None of these

Q.10.   Which type of graph best shows the outliers in each data set?

   a)   Boxplot   b)   Histogram   c)   Dot Plot   d)   Pie Chart   e)   None of these

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