

Newton Meter NaRiKa GN-1 ME4150



Measuring force is so quick and precise with the new digital display meter instead of traditional spring balance scales!

- Digital display meter
 - Two modes: Newton (N) / Weight (g)
 - Measurement range: ± 19.99N / ± 1,999g
 - Resolution: 0.01N / 1g
- Zero point adjustment function
- Hold function to obtain measured value at each moment
- Measuring both forces used in Pulling and Pushing



Remove the hook to measure pushing force



Use multiple meters for the experiment of addition and resolution of force with hold function as ease



Measuring 9.4N or 500g for a 500g weight

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Addition and Resolution of Forces

Resolving Forces in Components using Newton Meter

Experiment 4a Addition of forces

- 1 Set up the apparatus as shown (Fig a). The rubber band is fixed to point X.
- 2 Pull the rubber band to the centre of the protractor *O* using the spring balances. Record the readings of the spring balances. Also record the angles *a* and *b*.



Fig a

- 3 Find the resultant of F_1 and F_2 using algebraic or graphical method.
- 4 Repeat by pulling the rubber band to O using different forces at different angles.

Discussion

Is the resultant of F_1 and F_2 the same in every trial?

every trial?

Experiments in textbook are easy to conduct by students' group instead of using traditional spring balance scales!

- Measured value shown on digital display up to 20N
 - Covering the measurement range for four to five types of spring balances in one product
 - Measurement range: ± 19.99N / ± 1,999g
 - Resolution: 0.01N / 1g
- Hold function for measured value
 - Reading measured values more promptly and precisely in comparison with traditional spring balance



Solve a Question with Newton Meter Newton Meter NaRiKa GN-1 (ME4150)

Experiments in textbook are easy to conduct by students' group instead of using traditional spring balance scales!

- 1. Move a mass of 500g (0.5kg) as shown below (1 to 4).
- **2.** Compare (calculate) the applied **force** to hang the mass on the basis that "Gravitational Acceleration (g) = $10m/s^{2"}$.



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Answer: 4 < 1 = 2 < 3

