

1. What is the distance between a 128 kg object and a 136 kg object if the gravitational force of attraction between them is 6.582×10^{-10} N?

$$6.582 \times 10^{-10} = G(128)(136)$$

$$r^2 = \frac{6.582 \times 10^{-10}}{G(128)(136)}$$

$$r^2 = 1764.07$$

$$r = 42 \text{ m}$$

2. The force of gravity between two objects is 1200 N when the objects are 60 m apart. Find the force of gravity between the objects when they are 480 m apart.

Inverse square law:

Objects further apart, $F_g \downarrow$

$480 \div 60 = 8x$ further apart, so F_g is $8^2 = 64x$ smaller
 $1200 \div 64 = 18.8 \text{ N}$

3. Two students are on a skateboards and push away from each other. A 48 kg student accelerates away at 2.6 m/s^2 . Find the acceleration of the other student if their mass is 32 kg. Action-reaction forces

$$F_{\text{net}} = ma$$

$$F_{\text{net}} = 48(2.6)$$

$$F_{\text{net}} = 124.8 \text{ N}$$

F_{net} is the same
for both students

$$F_{\text{net}} = ma$$

$$124.8 = 32a$$

$$a = 3.9 \text{ m/s}^2$$

4. A 42.0 N force is applied to a 6.00 kg block but it only accelerates at 5.50 m/s^2 . Determine both the force and the coefficient of friction.



$$F_{\text{net}} = ma$$

$$42 - F_f = 6(5.5)$$

$$42 - F_f = 33$$

$$F_f = 9.0 \text{ N}$$

$$F_f = \mu F_N$$

$$9.0 = \mu(58.8)$$

$$\mu = 0.153$$

5. A go-cart, traveling at 65 km/h, skids to a stop. If the coefficient of friction between the tires and the asphalt is 0.59, how far does the go-cart skid?

$F_f \leftarrow$
 $F_F \rightarrow$
 $F_g \downarrow$
 no forwards force!

$$F_{\text{net}} = ma$$

$$F_f = ma$$

$$\mu F_N = ma$$

$$\mu \mu_F g = \mu m a$$

$$ma = \mu m g$$

$$0.59(9.8) = a$$

$$a = 5.782$$

$$V_i = 18.06$$

$$V_f = 0$$

$$d = ?$$

$$a = -5.782$$

$$t = x$$

$$V_F^2 - V_i^2 = 2ad$$

$$0 - 18^2 = 2(5.782)d$$

$$d = 28.2 \text{ m}$$

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O García

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Progress in Physics, vol. 1/2012 Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics [The Independent](#) Leonard Bacon, Joseph Parrish Thompson, Richard Salter Storrs, Joshua Leavitt, Henry Ward Beecher, Theodore Tilton, Henry Chandler Bowen, William Hayes Ward, Hamilton Holt, Fabian Franklin, Harold de Wolf Fuller, Christian Archibald Herter, 1909

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Mathematical Reviews, 2004 [British Education Index](#), 1996

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