

What is the speed of a whale 120 who swam meters and eight seconds?

What is the velocity of a whale who swam 120 meters and eight seconds?

If you run 100 m north and then 50 meters south in 30 seconds. What is your distance travelled? What is your displacement? What is your speed? What is your velocity?

If you drive 600 m north and 800 m west in 50 seconds. What is your distance travelled? What is your displacement? What is your speed? What is your velocity?

If you are 20 m south and 10 m east in eight seconds. What is your distance travelled? What is your displacement? What is your speed? What is your velocity?

P11 - 2.1 -
$$v = \frac{d}{t} Hmk$$

How long does it take to drive 100 km travelling at 10 km/h?

How long does it take to walk 20 m travelling at 2 m/s?

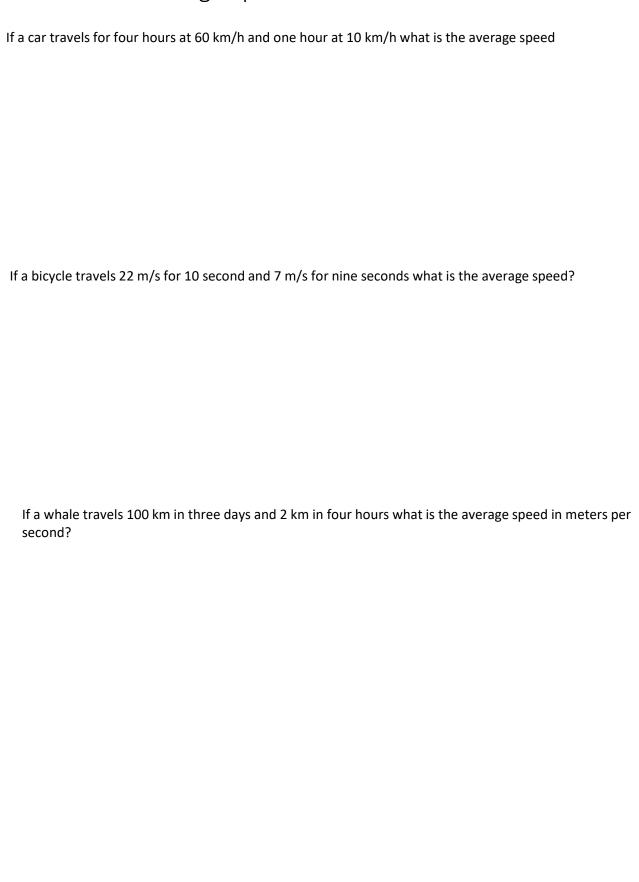
How long does it take to bicycle 80 m travelling at 6 m/s

How far can you drive at 75 km/h for three hours?

How far can you bicycle at 10 m/s for seven seconds?

How far can you walk at 5 m/s for 22 seconds?

P11 - 2.1 - Average Speed HMK



P11 - 2.2 - $a = \frac{v}{t} Hmk$

What is the acceleration of a
bicycle that reaches 24 m/s in six
seconds from rest?

What is the acceleration of the cheetah that reaches 18 m/s in two seconds?

What is the acceleration on a sleeping bear that wakes up and reaches 12 m/s in five seconds?

How long does it take a police car to reach 40 m/s accelerating at 8 m/s squared?

How long does it take a motorcycle to reach 45 m/s accelerating at 5 m/s squared?

How long does it take a rabbit to reach 8 m/s accelerating at 3 m/s squared?

How fast will a well get if it accelerates at 2 m/s squared for nine seconds?

How fast will a Lion and get if it accelerates four 4 m/s squared for nine seconds?

How fast will a narrow plane reach if it accelerates at 25 m/s squared for 12 seconds?

What is the acceleration of a rocket that accelerates from 200 m/s two 440 m/s in six seconds?

What is the acceleration of a police car that accelerates from 10 m/s to 18 m/s in three seconds?

What is the acceleration of a bicycle slowing down from 25 m/s two 10 m/s and three seconds?

P11 - 2.2 - $a = \frac{v}{t}$, " $v_f = v_i + at$ " HMK

What speed will it cheetah reach if she accelerates from rest at 4 m/s squared for five seconds?

What speed will a rabbit reach if it accelerates from rest at 2 m/s for four seconds?

How long will it take to accelerate to 8 m/s from rest at 2 m/s squared?

How long will it take to accelerate to 60 m/s from rest at 5 m/s squared?

How long will it take to accelerate from 8 m/s to 22 m/s accelerating at 2 m/s squared?

How long will it take to accelerate from 12 m/s to 60 m/s at 2 m/s squared?

How fast does a car reach accelerating at 5 m/s squared starting at 10 m/s for six seconds?

How fast is a car reach accelerating at 3 m/s squared starting at 5 m/s for six seconds?

What is the initial velocity of a car that reaches 30 m/s accelerating at 5 m/s squared for three seconds?

What is the initial velocity of a truck that reaches 45 m/s accelerating at 3 m/s squared for six seconds?

If a ball rolls up a gentle incline with an initial velocity of 10 m/s and after five seconds it is rolling down the hill with the velocity of 5 m/s, what is the balls acceleration. Ignore gravity

P11 - 2.3 - Ball Drop Hmk

How long does it take for a ball to drop 12 m? What is the ball's velocity before impact?

How long does it take for a ball to drop 20 m? What is the ball's velocity before impact?

P11 - 2.4 - Ball Launch Hmk



A ball with an initial velocity of 8 m/s is launched vertically. What is the velocity of the ball at the maximum height? How high does the ball go? How long does it take to reach the maximum height? How long does it take to travel up and down? What is the balls velocity before impact?

P11 - 2.5 - Ball Drop Throw Up from Building Hmk





P11 - 2.7 - Ball shot straight off cliff Notes Hmk



P12 - 28 - Cliff Down Projectile Motion HMK

P12 - 2.8 - CIII Down Projectile Motion Hivik
A ball is shot from 80 m cliff at 5 m/s at an angle of 20° below the horizontal. What is the max height? What is the time in flight? What is the distance the ball travels? What is the angle and resultant velocity of impact?
A hall is short from 40 we sliff at 405 w./s at an arrala of 45° halow the harris and 1 M/hat is the way, haisht 2 M/hat is
A ball is shot from 10 m cliff at 105 m/s at an angle of 15° below the horizontal. What is the max height? What is the time in flight? What is the distance the ball travels? What is the angle and resultant velocity of impact?
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P12 - 2.9 - Projectile Motion Ground HMK

A ball is shot at 40 m/s at an angle of 30° above the horizontal. What is the max height? What is the time i flight? What is the distance the ball travels? What is the angle and resultant velocity of impact?
A ball is shot at 150 m/s at an angle of 70° above the horizontal. What is the max height? What is the time in flight? What is the distance the ball travels? What is the angle and resultant velocity of impact?

P12 - 2.9 - Projectile Motion Hmk



P12 - 2.10 - Cliff Up Projectile Motion HMK



P12 - 2.11 - River Boat Current

