

4.

The magnitude of the unknown force is 5N.

5.

The magnitude of the downward force is 350N and the magnitude of force towards right is..... (IMPOSSIBLE.... CAN U HAVE NEGATIVE FORCE?)

6.

Upward Force: 1000000000N

Downward Force: 1000000000N

Right Force: 300N

EX_2.3

1.

Accelerate = 12 / 3 = 4 ms-2

2.

Accelerate = 12 / 6 = 2 ms-2

3.

15 / 5 = 3Kg

4.

F = M x A 3F = 2M x oldA 3F/2M = oldA 3/2 x F/M = oldA F/M = 3/2 x oldA newA = 1.5 x oldA = 1.5 x 2 = 3

New Accelerate is 1.5x2 = 3ms-2
EX_2.4
1.
The car, it has both greater mass and acceleration
2.
It will be the a smaller acceleration on the gun compare to the bullet cause the larger mass
3.

The pin will apply the same force back to the opposite direction towards the ball.