



وزارة التربية والتعليم  
الإدارة المركزية لتطوير المناهج  
مكتب مستشار الرياضيات

**برعاية معالي وزير التربية والتعليم**

**السيد الأسناذ / محمد عبد اللطيف**

ونوجيهات مساعد الوزير لشئون تطوير المناهج التعليمية  
والمشرف علي الإدارة المركزية لتطوير المناهج

**د / أكرم حسن**

إشراف علمي  
مستشار الرياضيات

**أ / منال عزقول**

**أداءات ونقييمات لمنهج الرياضيات**

للسف الثاني الثانوي [ علمي ]

للعام الدراسي ٢٠٢٤ / ٢٠٢٥

إعداد

**د / مدحت عطية شعراوي**

مراجعة

**أ / عفاف جاد**

**أ / محمود سراج**

ترجمة

**أ / محمود سليمان نظيم**

مراجعة الترجمة

**أ / عثمان مصطفى**



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**Homework Week: (5) Semester (2) Mathematics Applications Grade: Second Secondary (Scientific)**

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- (1) A small stone fell from the top of a house and reached the ground after 3 seconds. Calculate: the speed of the stone at the moment it reaches the ground.
- (2) A small stone fell from the top of a house and reached the ground after 2 seconds. Calculate the height of the house.
- (3) A small stone was thrown into a well at a speed of 8 m/s vertically downwards and reached the bottom of the well after one second. Find the depth of the well.
- (4) A body was thrown into a well at a speed of 5 m/s and reached the bottom of the well after 4 seconds. Find the speed of the body when it collided with the bottom of the well.
- (5) A particle was thrown vertically upward at a speed of 39.2 m/s. Find the time it took to reach the maximum height.
- (6) A particle was thrown vertically upward at a speed of 19.6 m/s. After how many seconds does it return to the point of throwing?
- (7) A particle was thrown vertically upward from a point on the ground at a speed of 14 m/s. Find the maximum height the particle reached.
- (8) A small ball was thrown vertically upwards and then returned to the point of throwing after covering a distance of 80 cm. Find the time The body reaches its maximum height .
- (9) A particle was thrown vertically upwards from a point on the Earth's surface. The maximum height the particle reached was 20 meters. Find: the speed at which the particle was thrown at.



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(10) A particle was thrown vertically upwards from a point on the Earth's surface. It returned to it after 10 seconds from the moment it was thrown. Find: the maximum height the particle reached .

