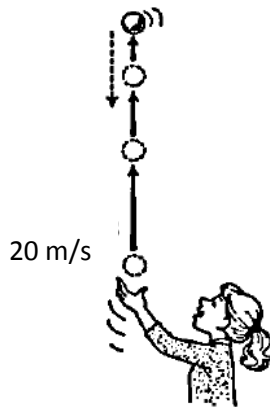


Year 11 Physics 2021

Worksheet 5

Write the answers in your Exercise Book.

A girl throws a ball vertically into the air with an initial velocity of 20 m/s. It is caught at the same level.



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- (a) Find the **speed** of the ball after 1 s. **(1 mark)**

- (b) How **high** will the ball be after 1.5s? **(1 mark)**

- (c) How long will it take to reach the **maximum height**? **(1 mark)**

- (d) What is the **maximum height** above the girl's hand the ball reaches? **(1 mark)**

- (e) What is the **total time** for its upwards and downwards movement? **(1 mark)**

- (f) What is its **speed** when it returns to the starting point? **(1 mark)**

- (g) What is its **speed** at the height of 2 m above the girl's hand? **(1 mark)**