

## Conventions in Sho's (Japanese-like style) Grading

○ : correct

⑤ : correct but mishandling of significant figures.

× : incorrect

△ : partial mark (with a number  $n \rightarrow n折$ )\*1.

ACCEPT: a problematic answer but accepted as a correct answer.

UM	: unit missing
UE	: unit handling error
UD	: unit duplication
DM	: direction missing
DE	: direction error
Dir	: direction missing/error
VE	: vector handling error
Exp	: insufficient explanation
Calc	: calculation error

underline ending with  $\perp$  : correct claim for partial mark

underline ending with a number : correct claim for partial mark indicated by the number

underline ending with  $\times$  : incorrect claim

wavy underline : critical issue (usually it leads you to a wrong answer)

purple marker : English issue (tolerated)

yellow marker : minor issue (tolerated)

(Sample: For a two-second free fall of a 5 kg object, find the final kinetic energy and the average speed.)

Since it reach the ground at  $t=2.0s$ , the height in  $t=0$  is

$$h = \frac{1}{2}gt^2 = 19.6m$$

and the average sped is

$$19.6/2.0 = 9.8 m/s. \text{ } +0.3$$

The kinetic energy at  $t=2.0s$  is

$$K = \frac{1}{2}mgh = \frac{5.0 \text{ kg} \cdot 9.8 \text{ m/s}^2 \cdot 19.6 \text{ m}}{2} = 420 \text{ J.}$$

\*1 For  $1 \leq n \leq 9$ , (full mark)  $\times 0.1n$ . For  $10 \leq n \leq 99$ , (full mark)  $\times 0.01n$ .