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Assignment 1

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1 Problem

Which of the following cannot be the probability of an event?

- i) $\frac{2}{3}$
- ii) -1.5
- iii) 15

2 solution

Let A be any event of any experiment then

$$0 \le P(A) \le 1 \tag{2.0.1}$$

(i)
$$0 \le \frac{2}{3} \le 1$$

example:

A bag contains one green ball, two blue balls. Probability of picking a blue ball from the bag is $\frac{2}{3}$

So probability of an event can be $\frac{2}{3}$

$$(ii)-1.5 < 0$$

it does not satisfy the condition (2.0.1)So probability of an event cannot be -1.5

it does not satisfy the condition (2.0.1) So probability of an event cannot be 15

Therefore options (ii) and (iii) are the required answers.