Roll 2 dice, let X denote the maximum that appears.

$$E(X) = (1)(\frac{1}{36}) + (2)(\frac{2}{36}) + (3)(\frac{2}{36}) + (4)(\frac{2}{36}) + (5)(\frac{2}{36}) + (6)(\frac{4}{36})$$

$$= \frac{1+6+15+28+45+66}{36}$$

$$= \frac{161}{36} = 4.472...$$

Here, $E(X)$ is not equal to low 2 or 3 ... or 6

That's OK. Do not round $E(X)$ (Say) down 464.

$$E(X) = \frac{161}{36} = 4.472...$$