







X has the probability density function as given in the table:

| | | | | | |
|--------|------|-----|-----|-----|------|
| x | 1 | 2 | 3 | 4 | 5 |
| P(X=x) | 0.15 | 0.2 | 0.3 | 0.2 | 0.15 |

Y has the probability density function as given in the table:

| | | | |
|--------|-----|-----|-----|
| y | 1 | 2 | 3 |
| P(Y=y) | 0.2 | 0.5 | 0.3 |

The variables P, Q and R are as follows:

$$P = 2X + 3$$

$$Q = 3X - 2$$

$$R = 2X^2 - X + 1$$

A rectangle has length P and width Q.

A triangle has base P and height Q.

A regular hexagon has side of length P.

A regular decagon has side of length Q.