



# Probability Random Variables - Probability Table and Ticket Price to Expected Gain or Loss

1 What is the expected gain or loss per ticket?

A ticket costs \$14. Find the expected gain or loss.

Prize	$P(X)$
\$0	0.60
\$10	0.10
\$15	0.30

A	B	C	D
-\$8.5	-\$7.5	\$5.5	\$8.5

2 What is the expected gain or loss per ticket?

A ticket costs \$11. Find the expected gain or loss.

Prize	$P(X)$
\$0	0.70
\$5	0.10
\$25	0.20

A	B	C	D
-\$6.5	-\$4.5	-\$5.5	\$5.5

3 What is the expected gain or loss per ticket?

A ticket costs \$11. Find the expected gain or loss.

Prize	$P(X)$
\$0	0.20
\$20	0.10
\$25	0.70

A	B	C	D
-\$8.5	\$9.5	\$19.5	\$8.5

4 What is the expected gain or loss per ticket?

A ticket costs \$14. Find the expected gain or loss.

Prize	$P(X)$
\$0	0.30
\$5	0.50
\$15	0.20

A	B	C	D
\$8.5	-\$7.5	\$5.5	-\$8.5

5 What is the expected gain or loss per ticket?

A ticket costs \$7. Find the expected gain or loss.

Prize	$P(X)$
\$0	0.10
\$10	0.60
\$20	0.30

A	B	C	D
-\$5	\$12	\$6	\$5

6 What is the expected gain or loss per ticket?

A ticket costs \$11. Find the expected gain or loss.

Prize	$P(X)$
\$0	0.60
\$15	0.30
\$20	0.10

A	B	C	D
\$4.5	\$6.5	-\$3.5	-\$4.5

7 What is the expected gain or loss per ticket?

A ticket costs \$6. Find the expected gain or loss.

Prize	$P(X)$
\$0	0.20
\$10	0.50
\$20	0.30

A	B	C	D
\$6	\$5	\$11	-\$5

8 What is the expected gain or loss per ticket?

A ticket costs \$10. Find the expected gain or loss.

Prize	$P(X)$
\$0	0.30
\$5	0.40
\$10	0.30

A	B	C	D
\$5	-\$5	-\$6	-\$4