11.

382

	Probability	Gain
Option 1	100%	\$1000
	0%	\$0
Option 2	60%	\$2000
	40%	\$0

12.

	Probability	Gain
Option 1	100%	-\$1000
	0%	\$0
Option 2	70%	-\$2000
	30%	\$1000

13.

	Probability	Gain
Option 1	80%	\$1000
	20%	\$3000
Option 2	90%	\$2000
	10%	\$0

14.

	Probability	Gain
Option 1	75%	\$500
	25%	\$1500
Option 2	50%	-\$500
	50%	\$2000

DATA

Investment Comparison You want to invest \$1000. In Exercises 15 and 16, find the expected values for the two investments. (See Example 6.)

15.

Speculative investment

• Complete loss: 10% chance

• No gain or loss: 20% chance

• 150% gain: 40% chance

• 200% gain: 20% chance

• 700% gain: 10% chance

Conservative investment

• Complete loss: 1% chance

• No gain or loss: 39% chance

• 50% gain: 40% chance

• 100% gain: 20% chance

16.

Speculative investment

• Complete loss: 30% chance

• No gain or loss: 25% chance

• 100% gain: 20% chance

• 500% gain: 15% chance

• 1000% gain: 10% chance

Conservative investment

• Complete loss: 5% chance

• No gain or loss: 15% chance

• 30% gain: 60% chance





Copyright © Larson Texts, Inc. All rights reserved.