
Jonah and the Phone Card

Jonah buys a \$2 phone card. The phone card company charges these fees:

- 5 cents to dial the access number
- 10 cents to call a mobile phone
- 10 cents a minute to talk
- 5 cents to end the call

1. If Jonah makes only one phone call to a cell phone, how many minutes can he talk?

2. Jonah calls Jane on her cell phone. They talk for 5 minutes, then hang up.

Now how much money is left on the card?

How many minutes can Jonah talk if he calls Jane again?

3. Surprise! The card has a maintenance fee that Jonah did not know about. The maintenance fee is 20 cents. The company charges this fee after Jonah uses the card the first time.

Now how much money is left on the card after Jonah's first call to Jane?

Now how many minutes can Jonah talk if he calls Jane again?

Jonah and the Phone Card - Answer Key

Jonah buys a \$2 phone card. The phone card company charges these fees:

- 5 cents to dial the access number
- 10 cents to call a mobile phone
- 10 cents a minute to talk
- 5 cents to end the call

1. If Jonah makes only one phone call to a cell phone, how many minutes can he talk?

18 minutes [\$2 for phone card minus 20 cents for fees leaves
\$1.80 = 18 minutes at 10 cents a minute]

2. Jonah calls Jane on her cell phone. They talk for 5 minutes, then hang up.

Now how much money is left on the card?

\$1.30 [\$1.80 minus 50 cents]

How many minutes can Jonah talk if he calls Jane again?

11 minutes [\$1.30 minus 20 cents for fees leaves \$1.10 =
11 minutes at 10 cents a minute]

3. Surprise! The card has a maintenance fee that Jonah did not know about. The maintenance fee is 20 cents. The company charges this fee after Jonah uses the card the first time.

Now how much money is left on the card after Jonah's first call to Jane?

\$1.10 [\$1.30 minus the extra 20 cents]

Now how many minutes can Jonah talk if he calls Jane again?

9 minutes [\$1.10 minus 20 cents in fees leaves 90 cents]