

Ohm's Law

Question Group 1

Question 1

The current in the wires of a circuit is 60.0 milliAmps. If the voltage impressed across the ends of the circuit were doubled (with no change in its resistance), then its new current would be _____ milliAmps.

Question 2

The current in the wires of a circuit is 120.0 milliAmps. If the voltage impressed across the ends of the circuit were doubled (with no change in its resistance), then its new current would be _____ milliAmps.

Question 3

The current in the wires of a circuit is 180.0 milliAmps. If the voltage impressed across the ends of the circuit were doubled (with no change in its resistance), then its new current would be _____ milliAmps.

Question Group 2

Question 4

The current in the wires of a circuit is 60.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled (with no change in its resistance), then its new current would be _____ milliAmps.

Question 5

The current in the wires of a circuit is 120.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled (with no change in its resistance), then its new current would be _____ milliAmps.

Question 6

The current in the wires of a circuit is 180.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled (with no change in its resistance), then its new current would be _____ milliAmps.

Question Group 3

Question 7

The current in the wires of a circuit is 60.0 milliAmps. If the resistance of the circuit were doubled (with no change in voltage), then its new current would be _____ milliAmps.

Question 8

The current in the wires of a circuit is 120.0 milliAmps. If the resistance of the circuit were doubled (with no change in voltage), then its new current would be _____ milliAmps.

Question 9

The current in the wires of a circuit is 180.0 milliAmps. If the resistance of the circuit were doubled (with no change in voltage), then its new current would be _____ milliAmps.

Question Group 4

Question 10

The current in the wires of a circuit is 60.0 milliAmps. If the resistance of the circuit were tripled (with no change in voltage), then its new current would be _____ milliAmps.

Question 11

The current in the wires of a circuit is 120.0 milliAmps. If the resistance of the circuit were tripled (with no change in voltage), then its new current would be _____ milliAmps.

Question 12

The current in the wires of a circuit is 180.0 milliAmps. If the resistance of the circuit were tripled (with no change in voltage), then its new current would be _____ milliAmps.

Question Group 5

Question 13

The current in the wires of a circuit is 60.0 milliAmps. If the voltage impressed across the ends of the circuit were halved (i.e., one-half of the original voltage) (with no change in its resistance), then its new current would be _____ milliAmps.

Question 14

The current in the wires of a circuit is 120.0 milliAmps. If the voltage impressed across the ends of the circuit were halved (i.e., one-half of the original voltage) (with no change in its resistance), then its new current would be _____ milliAmps.

Question 15

The current in the wires of a circuit is 180.0 milliAmps. If the voltage impressed across the ends of the circuit were halved (i.e., one-half of the original voltage) (with no change in its resistance), then its new current would be _____ milliAmps.

Question Group 6

Question 16

The current in the wires of a circuit is 60.0 milliAmps. If the voltage impressed across the ends of the circuit were one-third of the original voltage (with no change in its resistance), then its new current would be _____ milliAmps.

Question 17

The current in the wires of a circuit is 120.0 milliAmps. If the voltage impressed across the ends of the circuit were one-third of the original voltage (with no change in its resistance), then its new current would be _____ milliAmps.

Question 18

The current in the wires of a circuit is 180.0 milliAmps. If the voltage impressed across the ends of the circuit were one-third of the original voltage (with no change in its resistance), then its new current would be _____ milliAmps.

Question Group 7

Question 19

The current in the wires of a circuit is 60.0 milliAmps. If the resistance of the circuit were halved (i.e., reduced to one-half the original value) (with no change in voltage), then its new current would be _____ milliAmps.

Question 20

The current in the wires of a circuit is 120.0 milliAmps. If the resistance of the circuit were halved (i.e., reduced to one-half the original value) (with no change in voltage), then its new current would be _____ milliAmps.

Question 21

The current in the wires of a circuit is 180.0 milliAmps. If the resistance of the circuit were halved (i.e., reduced to one-half the original value) (with no change in voltage), then its new current would be _____ milliAmps.

Question Group 8**Question 22**

The current in the wires of a circuit is 60.0 milliAmps. If the resistance of the circuit were reduced to one-third the original value (with no change in voltage), then its new current would be _____ milliAmps.

Question 23

The current in the wires of a circuit is 120.0 milliAmps. If the resistance of the circuit were reduced to one-third the original value (with no change in voltage), then its new current would be _____ milliAmps.

Question 24

The current in the wires of a circuit is 180.0 milliAmps. If the resistance of the circuit were reduced to one-third the original value (with no change in voltage), then its new current would be _____ milliAmps.

Question Group 9**Question 25**

The current in the wires of a circuit is 60.0 milliAmps. If the voltage impressed across the ends of the circuit were doubled and the resistance were tripled, then its new current would be _____ milliAmps.

Question 26

The current in the wires of a circuit is 120.0 milliAmps. If the voltage impressed across the ends of the circuit were doubled and the resistance were tripled, then its new current would be _____ milliAmps.

Question 27

The current in the wires of a circuit is 180.0 milliAmps. If the voltage impressed across the ends of the circuit were doubled and the resistance were tripled, then its new current would be _____ milliAmps.

Question Group 10

Question 28

The current in the wires of a circuit is 60.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled and the resistance were doubled, then its new current would be _____ milliAmps.

Question 29

The current in the wires of a circuit is 120.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled and the resistance were doubled, then its new current would be _____ milliAmps.

Question 30

The current in the wires of a circuit is 180.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled and the resistance were doubled, then its new current would be _____ milliAmps.

Question Group 11

Question 31

The current in the wires of a circuit is 60.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled and the resistance were halved, then its new current would be _____ milliAmps.

Question 32

The current in the wires of a circuit is 120.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled and the resistance were halved, then its new current would be _____ milliAmps.

Question 33

The current in the wires of a circuit is 180.0 milliAmps. If the voltage impressed across the ends of the circuit were tripled and the resistance were halved, then its new current would be _____ milliAmps.

Question Group 12

Question 34

The current in the wires of a circuit is 60.0 milliAmps. If the voltage impressed across the ends of the circuit was doubled and the resistance was one-third the original value, then its new current would be _____ milliAmps.

Question 35

The current in the wires of a circuit is 120.0 milliAmps. If the voltage impressed across the ends of the circuit was doubled and the resistance was one-third the original value, then its new current would be _____ milliAmps.

Question 36

The current in the wires of a circuit is 180.0 milliAmps. If the voltage impressed across the ends of the circuit was doubled and the resistance was one-third the original value, then its new current would be _____ milliAmps.