Fall 2022
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Due Sep 20 at 11:59pm **Points** 21 **Questions** 21 **Time Limit** None
Allowed Attempts Unlimited

Instructions

For all answers just enter the number *without* the units. (I'm trying a different answer bot).

The quiz allows multiple attempts, but (unfortunately), it forgets your previous correct answers on successive attempts. We recommend recording your answers so you can re-use the correct ones.

Take the Quiz Again

Last Attempt Details:

Time:	3 minutes
Current Score:	21 out of 21
Kept Score:	21 out of 21

3 Attempts so far
View Previous Attempts
Unlimited Attempts

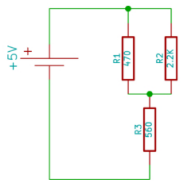
Take the Quiz Again

(Will keep the highest of all your scores)

Correct answers are hidden.

Score for this attempt: **21** out of 21
Submitted Sep 15 at 9:57pm
This attempt took 3 minutes.

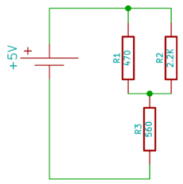
Question 1 — 1 / 1 pts



Resistors: Equivalent resistance of these three resistors? (no units, just the number)

947.2659

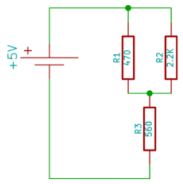
Question 2 — 1 / 1 pts



Resistors: What is the total current through this resistor network? (just he number in milliamps, such a "19.2")

5.278

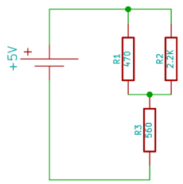
Question 3 — 1 / 1 pts



Resistors: What is the current flow through R3? (just the number in milliamps)

5.278

Question 4 — 1 / 1 pts

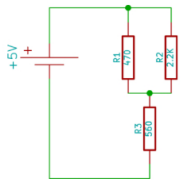


Resistors: What is the voltage across R3? (just the number in volts)

2.956

Question 5

1 / 1 pts

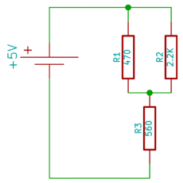


Resistors: What is the voltage across R1? (just the number in volts)

2.0443

Question 6

1 / 1 pts

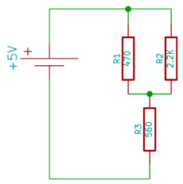


Resistors: What is the voltage across R2? (just the number in volts)

2.0443

Question 7

1 / 1 pts

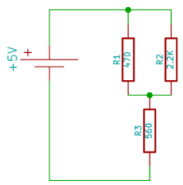


Resistors: What is the current across R1? (just the number in milliamps)

4.3496

Question 8

1 / 1 pts

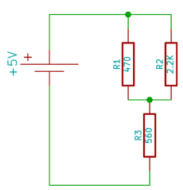


Resistors: What is the current across R2? (just the number in milliamps)

0.929

Question 9

1 / 1 pts



Resistors: Color code for R1: yellow violet brown

Select from black, brown, red, orange, yellow, green, blue, violet, grey, white.

Answer 1:

yellow

Answer 2:

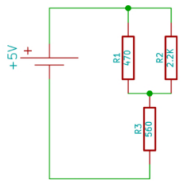
violet

Answer 3:

brown

Question 10

1 / 1 pts



Resistors: Color code for R2: red red red

Select from black, brown, red, orange, yellow, green, blue, violet, grey, white.

Answer 1:

red

Answer 2:

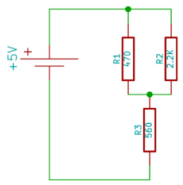
red

Answer 3:

red

Question 11

1 / 1 pts



Resistors: Color code for R3: green blue brown

Select from black, brown, red, orange, yellow, green, blue, violet, grey, white.

Answer 1:

green

Answer 2:

blue

Answer 3:

brown

Question 12

1 / 1 pts

Build the below circuit from the resistors in your kit. Power it from your Arduino.

Two resistors in series: What is the voltage at top of R1? _____ volts. (Just the number.)

5

Question 13

1 / 1 pts

Two resistors in series: What is the voltage at connection between R1 and R2? _____ volts. (Just the number.)

2.5

Question 14

1 / 1 pts

Two resistors in series: What is the voltage at bottom of R2? _____ volts. (Just the number.)

0

Question 15

1 / 1 pts

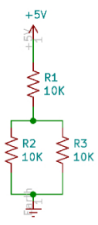
Two resistors in series: What is the total current through the two resistors in milliamps?

(Find the total resistance and calculate the current with ohms law.)

0.25

Question 16

1 / 1 pts

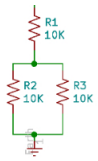


Three resistors: What is the voltage at the top of the network?

5

Question 17

1 / 1 pts

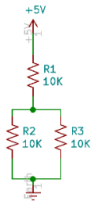


Three resistors: What is the voltage at the middle of the network?

1.667

Question 18

1 / 1 pts

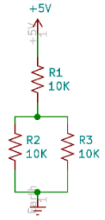


Three resistors: What is the voltage at the bottom of the network?

0

Question 19

1 / 1 pts

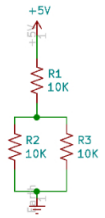


Three resistors: What is the total current through the network? (Answer in milliamps.)

0.33

Question 20

1 / 1 pts



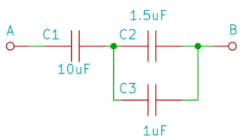
How much power in milliwatts does this voltage divider use?

(Remember the power equation P = I V)

1.65

Question 21

1 / 1 pts



What is the total capacitance between point A and B in this circuit? (in uF or microfarads)

2

Quiz Score: **21** out of 21