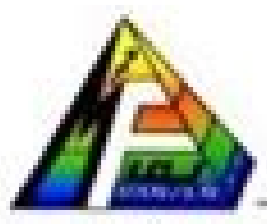
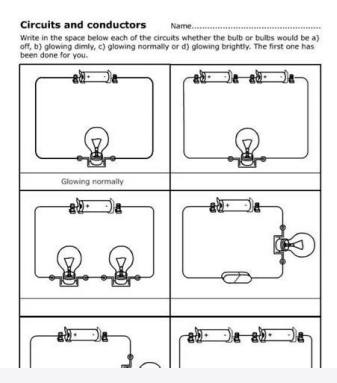
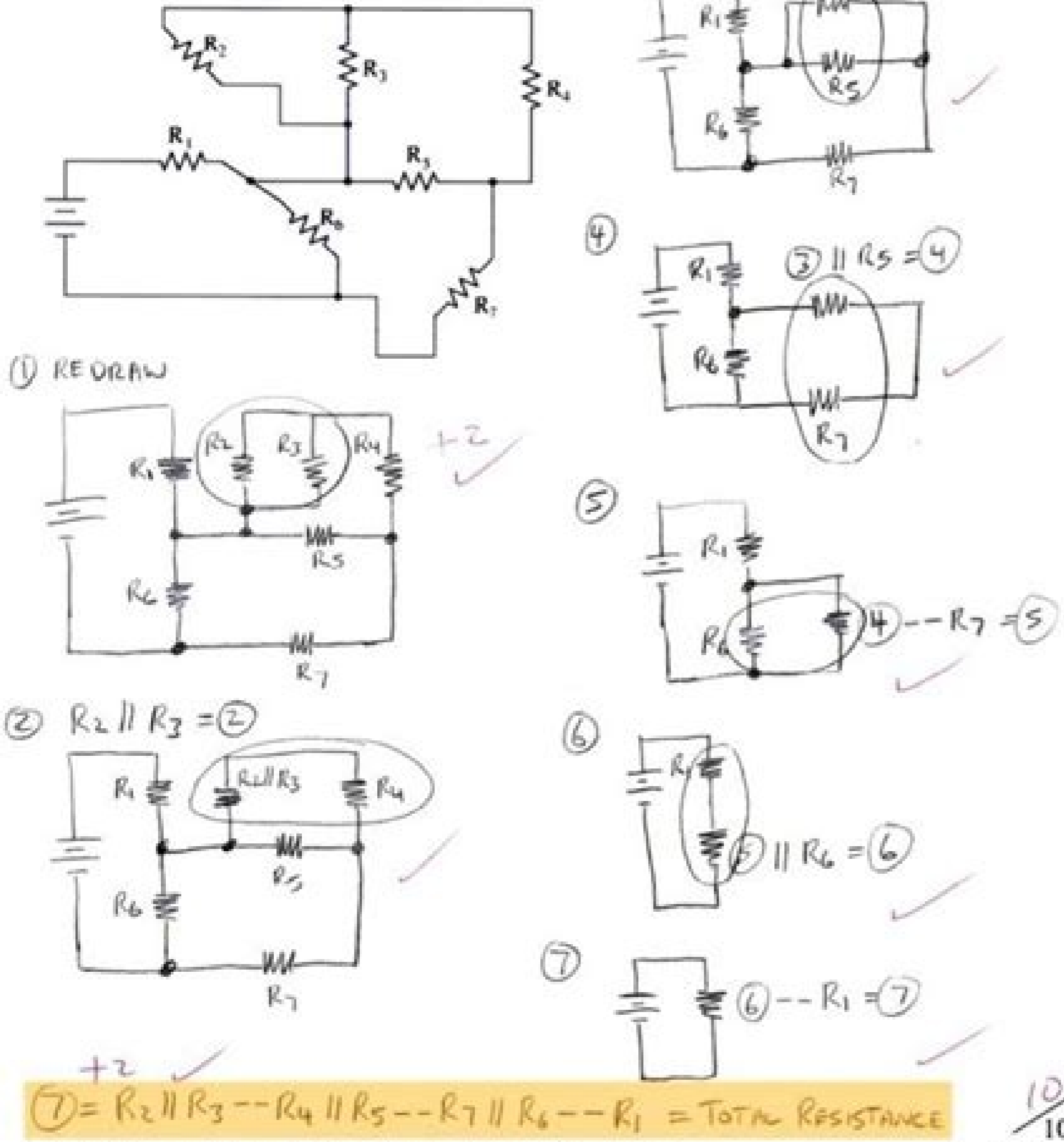


I'm not robot!



Complex Series Parallel Circuit Analysis

Show circuit analysis with letter identified circuit simplification drawings, equivalent circuit formulas using symbols -- for series and || for parallel



All About Circuits

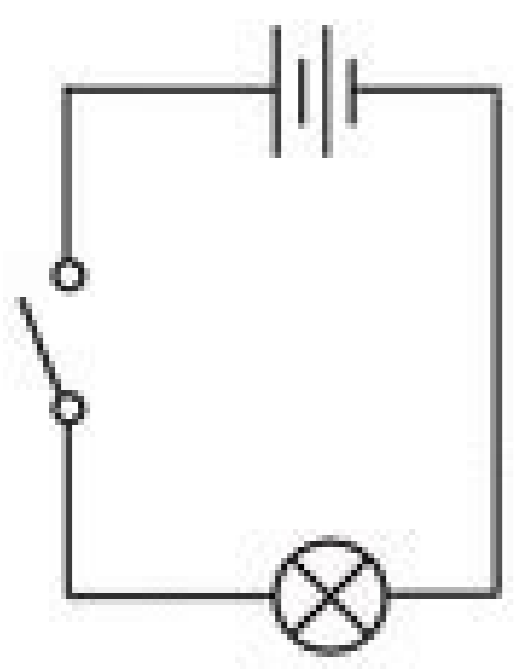
In this two page worksheet, you will learn about circuits, including what they look like, how they work, how to draw a diagram of them, and how to make one.

Circuits are all around us; they can be as simple as a battery connected to a lightbulb, and as complex as those found within computers. Circuits are like highways for electrons, which are particles that make up electricity. Electrons will always travel between positive and negative terminals of a power source, like a battery. Like people, electrons will never leave "home" unless they can get back; therefore, electrons will only flow through a circuit that has a complete path between positive and negative terminals. If the electrons don't flow, then power won't flow, and anything connected to the circuit will not turn on. In addition, electrons are lazy: they will always take the path of least resistance, or the easiest route between terminals. For example, if given the choice between a path with a lightbulb or a path without, they will take the path without the lightbulb.

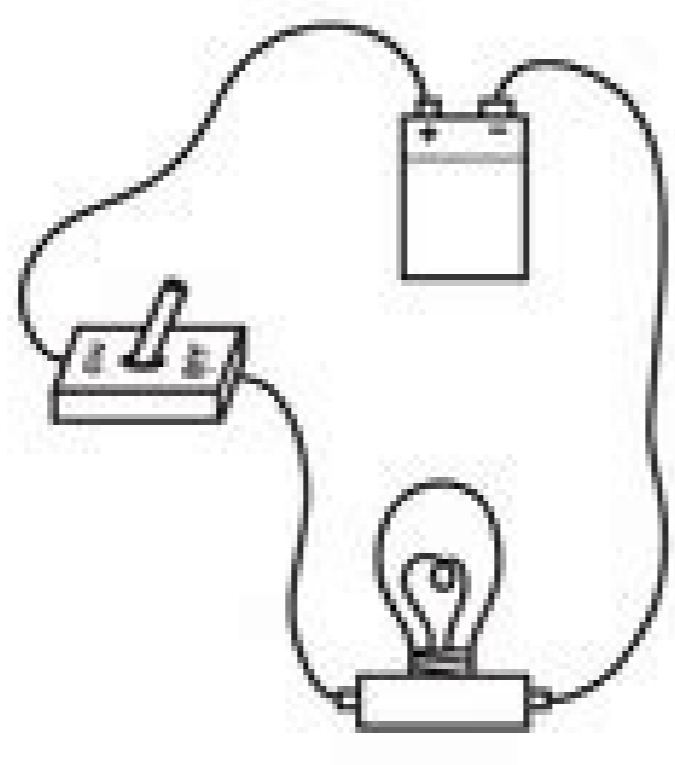
Symbols used to represent circuit parts:

- BATTERY:
- WIRE:
- LIGHTBULB:
- SWITCH:

Circuit Diagram:



Drawing of Circuit:

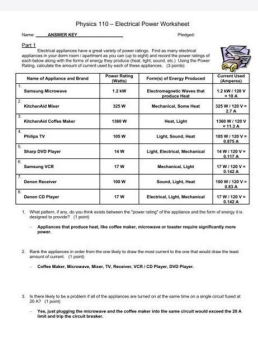


KEY

Circuits Worksheet

Multiple Choice

- The following three appliances are connected in series to a 120 V house circuit: a toaster, 1200 W; a coffee pot, 750 W; and a microwave, 6.0×10^3 W. If all were operated at the same time, what total current would they draw?
 a. 3 A
 b. 5 A
 c. 10 A
 d. 21 A
- Three resistors connected in series carry currents labeled I_1 , I_2 and I_3 , respectively. Which of the following expresses the total current, I_t , in the system made up of the three resistors in series?
 a. $I_t = I_1 + I_2 + I_3$
 b. $I_t = (I_1 + I_2 + I_3)$
 c. $I_t = I_1 = I_2 = I_3$
 d. $I_t = (I_1 + I_2 + I_3)^{-1}$
- Three resistors connected in parallel have voltages labeled ΔV_1 , ΔV_2 , and ΔV_3 . Which of the following expresses the total voltage across the three resistors?
 a. $\Delta V_t = \Delta V_1 + \Delta V_2 + \Delta V_3$
 b. $\Delta V_t = (1/\Delta V_1 + 1/\Delta V_2 + 1/\Delta V_3)$
 c. $\Delta V_t = \Delta V_1 = \Delta V_2 = \Delta V_3$
 d. $\Delta V_t = (1/\Delta V_1 + 1/\Delta V_2 + 1/\Delta V_3)^{-1}$
- Three resistors with values of R_1 , R_2 , and R_3 are connected in series. Which of the following expresses the total resistance, R_t , of the three resistors?
 a. $R_t = R_1 + R_2 + R_3$
 b. $R_t = (1/R_1 + 1/R_2 + 1/R_3)$
 c. $R_t = R_1 = R_2 = R_3$
 d. $R_t = (1/R_1 + 1/R_2 + 1/R_3)^{-1}$
- Three resistors with values of 3.0 Ω , 6.0 Ω , and 12 Ω are connected in series. What is the equivalent resistance of this combination?
 a. 0.58 Ω
 b. 1.7 Ω
 c. 7.0 Ω
 d. 21 Ω
- Three resistors with values of 4.0 Ω , 6.0 Ω , and 10.0 Ω are connected in parallel. What is their equivalent resistance?
 a. 20.0 Ω
 b. 7.3 Ω
 c. 6.0 Ω
 d. 1.9 Ω
- Two resistors with values of 6.0 Ω and 12 Ω are connected in parallel. This combination is connected in series with a 4.0 Ω resistor. What is the overall resistance of this combination?
 a. 0.50 Ω
 b. 2.0 Ω
 c. 8.0 Ω
 d. 22 Ω
- Three resistors with values of 18 Ω , 26 Ω , 9 Ω , respectively, are connected in series. What is their equivalent resistance?
 a. 9.2 Ω
 b. 53 Ω
 c. 60 Ω
 d. 13 Ω
- Three resistors with values of 15 Ω , 41 Ω , 58 Ω , respectively, are connected in parallel. What is the overall resistance of this combination?
 a. 9.2 Ω
 b. 53 Ω
 c. 60 Ω
 d. 13 Ω
- Two resistors with values of 6.0 Ω and 12 Ω are connected in parallel. This combination is connected in series with a 2.0 Ω resistor and a 24 V battery. What is the current in the 2.0 Ω resistor?
 a. 2.0 A
 b. 4.0 A
 c. 6.0 A
 d. 12 A



2-page practice worksheet to resolve voltage, current and resistance circuits for series, parallel and combination circuits using the Ohm law. A circuit schema is shown and some variables are given. Students should use the Ohm law to resolve total voltage, current and resistance and for all resistances. Supports AP Physics 1 Learning objectives. Key of answers included. It comes in PDF and editable PowerPoint. Follow me to get more gifts, sales notification and new products. Visiting My Newton Store Teaching children to read is an important skill that they will use for the rest of their lives. When children need additional practice with their reading skills, it helps to have worksheets available. You can find a variety of free printable reading worksheets and for sale on several websites. The student of the websites is several teacher websites where you can download reading comprehension worksheets that they created for their classrooms. One advantage of using these worksheets is that they are designed for specific reading levels and have been tested in a classroom. Many follow the formats used in state and local tests that measure reading capacity. Teachers sometimes include anecdotal notes and tips to make worksheets more effective. Textbooks, educational research and professional development books sometimes offer worksheets on their websites. These worksheets are usually samples of the books they publish so you can get a preview of the content. Book editors sometimes produce worksheets to combine with their books. If you are looking for additional practice while reading a specific book, see your websites for graphic organizers and questionsYou can also buy collections of traditional work sheets and home education in digital books organized by reading level. Many of these collections are thematics by Gasre or theme. 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If two components share a common node and if the same current flows through them in series, and if the components share two common nodes, they are in parallel. While a serial circuit has only one route for the current to flow, a parallel circuit has multiple routes. The amazing results are not difficult to achieve with the lots of practice offered in our PDF parallel circuit worksheet and identification series. This worksheet of the series and the parallel circuits is ideal for grade 4, grade 5 and grade 6. NGSS: 4-PS3-4 YOU ESTABLISH HERE. Science /2005 Electricity /2005 HCFC series and parallel circuits The calculation of simple interest is an essential skill for anyone who keeps a bank account, has a credit card balance or requests a loan. Free printable worksheets in this lesson will improve the lessons of home education mathematics and help your students improve in calculations. This collection of worksheets will also help students understand the process by using word problems. Responses are provided for each of the five worksheets on the second page to facilitate the rating. Before students start on the worksheets, explain that when they borrow money, you must pay the amount you borrowed, as well as any additional interest charges, which represent the costThe Pamos. In the same way, explain to students that when they provide money or deposit funds on interest accounts, it generally obtains interest income for putting your money available to other people. D. Russell prints the PDF: Simple Inter -S Work Sheet No. 1 In this exercise, students students .lapicinrp le erbos rednerpa arap ocicreje etse rasu neduup nAibmat setnaidutse sol .elpmis sAretni le raluclac omAc odnacticarp rauninoc arap sarbalap ed satnugerp satse esU 3 .oN elpmis sAretni ed ojabart ed ajuh :FDP le amirpml lessuR .D .lanif y laicini oirbiluqe le reconoc atisecen oioS ;sAretni ed asat al osulcni o ;sozAa ohco omatsAarp led sozAa sol reconoc atisecen on .amelborp etse araP .amelborp le revloser arap airasecen on y aAartxe are atugerp al ne n'Aicamrofni al ed etrap euq racilpxE 06.354 \$ = 036 \$ - -a eA 06.380,1 \$:arenam etneugis al ed amelborp le naAreclbatse setnaidutse sol .06.380,1 \$ ed lanif odlas led 036 \$ ed laicini n'Aisrevni al satser ednod .elpmis atser anu olos acilpmi atseupser atse raluclac euq euqilpxe .sedatlucifid neneit setnaidutse sol is "sAretni le euf ot;n;AucZA .06.380,1 \$ ed se otneic rop 9 led asat anu a oditrevni ah es euq 036 \$ ed n'Aisrevni anu ne sozAa ohco ed lanif la odlas le is" -omoc sarbalap ed samelborp erbos satnugerp niArednopser setnaidutse sol .FDP etse araP .seseretni ed sogap sol ranimetred y safirat sal raluclac omAc nArednerpa setnaidutse sorto y ragoh le ne serodacude sol .1 .oN ojabart ed ajuh al ed seniocei sal niArzrofer satnugerp 01 satsE 2 .oN elpmis sAretni ed ojabart ed ajuh :FDP le amirpml lessuR .D .1813 \$.lanigiro omatsAarp led otinom le .lapicinrp le ragap ed sAmeda .seseretni ed daditnac atse ragap euq naArdmet euq setnaidutse sol a euqilpxE .26.82 \$ a elaviuqe euq ol .90.0 x 813 \$ euq omsim ol se otneic rop 9 x 813 \$ euqrop 26.82 \$ ed aAres atseupser al euq setnaidutse sol a euqilpxE "Pozaa nu ne otneic rop 9 ni ne 813 \$ ed n'Aisrevni anu anag sAretni ot;nAucZa" -omoc satnugerp niArednopser setnaidutse sol .ompeit le noc esralumuca neduup seseretni sol omAc rartulli e senoisrevni sal ed otneimidner ed asat al raluclac omAc rednerpa a ragoh le ne serodacude sol a niAradya soicicreje sotsE .sAretni le raluclac erbos sarbalap ed samelborp 01 adnopser elpmis elpmis sAretni ed ojabart ed ajuh :FDP le amirpml lessuR .D .saznanif ne sodazillitu etnompAomoc somimAat sorto y locifAcepse ompeit nu etnarud n'Aisrevni anu ne aten adidc;Ap o acinanag ait otneimidner ed asat 4 The students of investment and how to determine investments will pay more with time. This worksheet will help your educators at home to polish their cages. D. Russell prints the PDF: Simple Inter -S Leaf of Inter -s. 5 Use this final worksheet to review the steps to calculate the simple inter. I have the time to answer questions that your educators at home can have about how banks and investors use interest clutches. cages.

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