

The IF Function

The IF function can perform a logical test and return one value for a TRUE result, and another for a FALSE result. For example, to "pass" scores above 70: =IF(A1>70,"Pass","Fail"). More than one condition can be tested by nesting IF functions. The IF function can be combined with logical functions like AND and OR.

Assignment

Create 6 different tabs, one for each of the exercises below. Label the tabs:

- Drive
- Packing
- Budget
- Grade
- Fuel
- Project

1) For those who are 18 and older, place a comment "Can Drive" under the Status. Otherwise, place a comment "Cannot Drive"

Age	Status
15	
21	
18	
20	
17	
18	

Now use Conditional Formatting to mark all cells that say "Can Drive" as green.

2) For Packings that are marked "Fragile", give a \$50 surcharge. Otherwise, mark "No charge" for "Sturdy" packing.

Items	Packing	Surcharge
Glass Jar	Fragile	
Metal Stand	Sturdy	
Chairs	Sturdy	
Computers	Fragile	
Books	Sturdy	

Now use Conditional Formatting to mark all cells that say "Fragile" as red.

3) If the actual spending is more than the budgeted amount, show "Over Budget". Otherwise, show that it is "Within Budget". You also need to create formulas for the Total row.

Holiday Expenses

Bookings	Budgeted	Actual	Status
Flight	\$1,200.00	\$1,259.00	
Hotel	\$650.00	\$590.98	
Car Rental	\$234.00	\$275.65	
Food	\$235.00	\$149.75	
Total			

Use conditional formatting to show the over budget items as red.

4) For Grade, give "Pass" if the score is above 75, otherwise, give a "Fail".

Name	Score	Grade
John	87	
Cathy	49	
Tom	55	
Kathy	90	
Donna	97	
Peter	67	
Sally	76	
Donald	87	
Harrold	90	
Darren	64	

Now use Conditional Formatting to fill all cells that are above 80 with green, and cells that are below 70 with red.

5) For cars that have a fuel economy score above 6.2, indicate “recommend”, otherwise “no”.

Name	Fuel Economy L/100 km	Recommend?
Chevrolet Spark LS CVT	7.0	
Honda Civic LX CVT	6.9	
Toyota Corolla CVT hatchback	6.8	
Nissan Versa S CVT	6.7	
Kia Rio LX+ CVT	6.7	
Hyundai Elantra Essential ISG CVT	6.4	
Mitsubishi Mirage ES CVT	6.2	
Kia Niro Touring	5.3	
Lexus ES 300h	5.3	
Toyota Prius	4.5	

Use Conditional Formatting to show the “recommend” as RGB 42, 134, 73.

6) For clients whose project took more hours than we quoted, use a formula for the conditional formatting to show the client’s name with a red cell

Client	Hours Quoted for Project	Actual Hours
Superstore	22	23
Best Buy	19	17
Little India	35	33
TD Bank	40	45
Servus Credit Union	35	37
Tim Horton’s	22	22
City of Calgary	34	34