

# Exercises

- Given the wind speed as shown in the table below, write the formula that would appear in cell C2. Note that a Gale Warning is issued when the wind speed exceeds 63 km/hr.

	A	B	C
1	Date	Wind Speed	Warning Issued
2	1/01/2007	3	
3	2/01/2007	57	
4	3/01/2007	89	Gale Warning
5	4/01/2007	60	
6	5/01/2007	5	
7	6/01/2007	84	Gale Warning
8	7/01/2007	87	Gale Warning
9	8/01/2007	8	

**=IF(B2 > 63, "Gale Warning", "")**

# Exercises

IF less than 50 percent of tickets available at a venue were sold, then the venue is too large. To produce the result in cell F7, what formula should you use in this cell?

	A	B	C	D	E	F
1	<b>Ticket Sales</b>					
2						
3	Price	\$10.00				
4						
5	Event	Tickets Available	Tickets Sold	Remaining	Sales	Venue too large?
6	Cycling	4000	2000	2000	\$20,000.00	No
7	Weightlifting	2000	750	1250	\$7,500.00	Yes
8	Triathlon	1000	100	900	\$1,000.00	Yes
9	Football	3000	3000	0	\$30,000.00	No
10	Badminton	5000	4500	500	\$45,000.00	No
11		15000	10350	4650	\$103,500.00	

**=IF(C7/B7 < 0.5, "Yes", "No")**

# Exercises

- **Ticket Sales**

- Check if more than 90% of the tickets were sold, or if less than 50% of the tickets were sold. In either case, a new venue is required next time.

	A	B	C	D	E	F	G
1	<b>Ticket Sales</b>						
2							
3	<b>Price</b>	\$10.00					
4							
5	<b>Event</b>	<b>Tickets Available</b>	<b>Tickets Sold</b>	<b>Remaining</b>	<b>Sales</b>	<b>Venue too large?</b>	<b>New venue?</b>
6	Cycling	4000	2000	2000	\$20,000.00	No	No
7	Weightlifting	2000	750	1250	\$7,500.00	Yes	Yes
8	Triathlon	1000	100	900	\$1,000.00	Yes	Yes
9	Football	3000	3000	0	\$30,000.00	No	Yes
10	Badminton	5000	4500	500	\$45,000.00	No	No
11		15000	10350	4650	\$103,500.00		

**=IF(OR(C9/B9>0.9,C9/B9<0.5), "Yes", "No")**

# Exercises

- Use a VLOOKUP to find the description for a recorded wind speed

	A	B	C	D	E	F	G
23					<b>Beaufort Scale</b>		
24					Speed (km/hr)	Beaufort number	Description
25	<b>Day</b>	<b>Wind Spd</b>	<b>Description</b>		0	0	Calm
26	Mon	27	Moderate breeze		1	1	Light air
27	Tues	5	Light air		7	2	Light breeze
28	Wed	0	Calm		12	3	Gentle breeze
29	Thurs	15	Gentle breeze		20	4	Moderate breeze
30	Fri	20	Moderate breeze		30	5	Fresh breeze
31	Sat	40	Strong breeze		40	6	Strong breeze
32	Sun	78	Strong gale		51	7	Near gale
33					63	8	Gale
34					76	9	Strong gale
35					88	10	Storm
36					103	11	Violent storm
37					118	12	Hurricane

**=VLOOKUP( value, table, column, range )**

**=VLOOKUP( B26, \$E\$25:\$G\$37, 3, TRUE)**

# Exercise: ThinkGeek T-Shirts



<http://www.thinkgeek.com/>

# Exercises

What formulae should be used in cells D15, E15, F15 and F26?

	A	B	C	D	E	F
1	<b>T-Shirt Sizes</b>				<b>T-Shirt Prints</b>	
2	<b>Size</b>	<b>Price</b>			<b>Code</b>	<b>Description</b>
3	S	\$ 10.99			1001	2 + 2 = 5
4	M	\$ 11.99			1010	geek inside
5	L	\$ 12.99			1011	<BODY>
6	XL	\$ 13.99			1100	man woman
7	XXL	\$ 14.99			1101	obey gravity
8	XXXL	\$ 15.99			1110	I'm blogging this
9					1111	Arrrrrghh...
10						
11						
12						
13	<b>Invoice</b>					
14	<b>Code</b>	<b>Size</b>	<b>Number</b>	<b>Description</b>	<b>Price</b>	<b>Cost</b>
15	1010	M	1	geek inside	\$ 11.99	\$ 11.99
16	1010	L	1	geek inside	\$ 12.99	\$ 12.99
17	1011	S	3	<BODY>	\$ 10.99	\$ 32.97
18	1110	XL	1	I'm blogging this	\$ 13.99	\$ 13.99
19	1001	XL	1	2 + 2 = 5	\$ 13.99	\$ 13.99
20	1101	M	2	obey gravity	\$ 11.99	\$ 23.98
21	1111	M	1	Arrrrrghh...	\$ 11.99	\$ 11.99
22						
23						
24						
25						
26					Total	\$ 121.90

D15:

**=VLOOKUP(A15,\$E\$3:\$F\$9,2,FALSE)**

E15:

**=VLOOKUP(B15,\$A\$3:\$B\$8,2,FALSE)**

F15:

**=C15 \* E15**

F26:

**=SUM(F15:F21)**

# Exercises

- **What formula would be used in cell C7?**
  - Use a HLOOKUP

	A	B	C	D	E	F	G	H
1		<b>Movie Prices</b>						
2	<b>Day</b>	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
3	<b>Price</b>	\$11.00	\$11.00	\$11.00	\$15.00	\$15.00	\$15.00	\$15.00
4								
5	<b>Movie Tickets</b>							
6	<b>Name</b>	<b>Day</b>	<b>Cost</b>					
7	John	Tues	\$11.00					
8	Jane	Thurs	\$15.00					
9	Tom	Sat	\$15.00					

**=HLOOKUP(B7,\$B\$2:\$H\$3,2,FALSE)**