

**Excel & Business Math**  
**Video/Class Project #32**

**Rounding Time Calculations to Nearest 5 or 15 minutes using MROUND**

**Topics**

1) MROUND Function Allows You To Round To The Nearest Amount Rather Than To A Position .....	2
2) Rounding Time Calculations to Nearest 5 or 15 minutes using MROUND .....	3
3) Night Shift & Rounding to Nearest 5 Minutes Example .....	4

## 1) MROUND Function Allows You To Round To The Nearest Amount Rather Than To A Position

	A	B	C	D	E	F	G	H	I	J	K
1	MROUND function allows you to round to the nearest amount rather than to a position, like with the ROUND Function.										
2	MROUND( <b>number,multiple</b> )										
3	Applies standard round rule to a <b>number</b> and will round to a specified amount ( <b>multiple</b> )										
4	Examples:										
5											
6	Round to Nearest \$0.50		\$0.50				Round to Nearest 00:05		0:05:00		
7											
8	<b>To A Specific Amount (like for pricing)</b>						<b>To A Specific Amount (like for payroll)</b>				
9	MROUND	\$104.24	104.00	=MROUND(B9,\$C\$6)		MROUND	10:12:29 AM	10:10:00 AM	=MROUND(H9,\$I\$6)		
10	MROUND	\$104.25	104.50			MROUND	10:12:30 AM	10:15:00 AM			
11	MROUND	\$104.43	104.50			MROUND	8:31:00 AM	8:30:00 AM			
12	MROUND	\$104.99	105.00			MROUND	7:43:00 AM	7:45:00 AM			
13											
14	Round to Nearest \$10.00		\$10.00				Round to Nearest 00:10		0:10:00		
15											
16	<b>To A Specific Amount (like for pricing)</b>						<b>To A Specific Amount (like for payroll)</b>				
17	MROUND	\$104.00	100.00	=MROUND(B17,\$C\$14)		MROUND	7:40:00 AM	7:40:00 AM	=MROUND(H17,\$I\$14)		
18	MROUND	\$104.99	100.00			MROUND	8:20:00 AM	8:20:00 AM			
19	MROUND	\$105.00	110.00			MROUND	10:41:00 AM	10:40:00 AM			
20	MROUND	\$106.00	110.00			MROUND	6:32:00 AM	6:30:00 AM			

## 2) Rounding Time Calculations to Nearest 5 or 15 minutes using MROUND

	A	B	C	D	E	F	G	H
1	Rounding Time Calculations to Nearest 5 or 15 minutes using MROUND							
2								
3				Round to Nearest 00:05		0:05:00		
4								
5	<b>Employee</b>	<b>Wage per Hour</b>	<b>Time In</b>	<b>Time Out</b>	<b>Hours Worked with Time Number Format</b>	<b>Hours Worked with Time Number Format Rounded to 00:05</b>	<b>Number of Hours Worked Rounded to 00:05</b>	<b>Gross Pay</b>
6	Bateman, Darius	\$51.01	10:25:00 AM	4:55:00 PM	6:30	6:30	6.5	331.57
7	Mein, Tomasa	\$51.75	6:25:00 AM	1:37:00 PM	7:12	7:10	7.166666667	370.88
8	Winkler, Broderick	\$35.30	6:56:00 AM	2:23:00 PM	7:27	7:25	7.416666667	261.81
9	Pitts, Aleisha	\$42.84	9:45:00 AM	5:34:00 PM	7:49	7:50	7.833333333	335.58
10	Gaines, Abdi	\$42.56	9:02:00 AM	3:52:00 PM	6:50	6:50	6.833333333	290.83
11	Cardoza, Florene	\$33.95	8:06:00 AM	3:03:00 PM	6:57	6:55	6.916666667	234.82
12	Escobar, Annemarie	\$22.46	9:29:00 AM	3:51:00 PM	6:22	6:20	6.333333333	142.25
13	Dubose, Clelia	\$23.04	10:47:00 AM	5:00:00 PM	6:13	6:15	6.25	144
14	Redd, Lilla	\$37.31	6:38:00 AM	1:32:00 PM	6:54	6:55	6.916666667	258.06
15	Hudgins, Elton	\$37.66	8:34:00 AM	4:08:00 PM	7:34	7:35	7.583333333	285.59
16								
17					Formula in cell E6:	Formula in cell F6:	Formula in cell G6:	Formula in cell H6:
18					=D6-C6	=MROUND(D6-C6,\$F\$3)	=MROUND(D6-C6,\$F\$3)*24	=ROUND(G6*B6,2)
19								
20							<b>Total</b>	2655.39

### 3) Night Shift & Rounding to Nearest 5 Minutes Example

	A	B	C	D	E	F	G	H
1	Create the Hours Worked Formula that rounds to the nearest 5 minutes and then calculate the & Gross Pay Formula							
2	For this problem some of the employees work the Night Shift.							
3								
4				Round to Nearest 00:05		0:05:00		
5								
6	<b>Employee</b>	<b>Wage per Hour</b>	<b>Time In</b>	<b>Time Out</b>	<b>Time Worked (Decimal w Time Number Format)</b>	<b>Round Time to 00:05 min</b>	<b>Time in Hours</b>	<b>Gross Pay</b>
7	Faye Mullins	\$40.98	9:16:00 AM	3:41:00 PM	6:25:00 AM	6:25:00 AM	6.416666667	262.96
8	Lydia Watts	\$37.17	5:40:00 PM	1:00:00 AM	7:20:00 AM	7:20:00 AM	7.333333333	272.58
9	Elvira Goodwin	\$37.10	8:02:00 AM	2:25:00 PM	6:23:00 AM	6:25:00 AM	6.416666667	238.06
10	Gerard Chavez	\$40.22	7:32:00 AM	12:50:00 PM	5:18:00 AM	5:20:00 AM	5.333333333	214.51
11	Vernon Harvey	\$45.37	8:43:00 AM	2:19:00 PM	5:36:00 AM	5:35:00 AM	5.583333333	253.32
12	Shelley Cruz	\$43.77	9:01:00 PM	4:00:00 AM	6:59:00 AM	7:00:00 AM	7	306.39
13	Sheryl Cain	\$36.30	6:49:00 AM	2:39:00 PM	7:50:00 AM	7:50:00 AM	7.833333333	284.35
14	Camille Hamilton	\$26.44	7:16:00 AM	2:12:00 PM	6:56:00 AM	6:55:00 AM	6.916666667	182.88
15	Molly Cannon	\$35.92	11:07:00 PM	6:09:00 AM	7:02:00 AM	7:00:00 AM	7	251.44
16	Randal Byrd	\$23.23	8:20:00 AM	2:08:00 PM	5:48:00 AM	5:50:00 AM	5.833333333	135.51
17								
18					Formula in cell E7:	Formula in cell F7:	Formula in cell G7:	Formula in cell H7:
19					=MOD(D7-C7,1)	=MROUND(E7,\$F\$4)	=F7*24	=ROUND(G7*B7,2)
20								
21							<b>Total Gross</b>	2402