

# Happy Holidays!

(more on back)

# MATH IS MONUMENTAL

## Monthly Goals:

K-2<sup>nd</sup>= **900 minutes**  
 (45 minutes/day)  
**3rd-5<sup>th</sup>= 1,200 minutes**  
 (60 minutes/day)  
**6<sup>th</sup>-12<sup>th</sup>= 1,500 minutes**  
 (75 minutes/day)

**Buck Island Reef**

Most of this 19,000-acre monument is underwater, containing a large elkhorn coral barrier reef that provides cover for a great variety of reef fish, sea turtles and least terns. It is based around Buck Island, an uninhabited 176-acre island.

# January

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			<i>Winter Break</i>		<i>free minutes</i>	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18 MLK Day <i>free minutes</i>	19	20	21	22	23
24	25	26	27	28	29	30
31						

\* if necessary, see your advisor to set up an alternative method of tracking goals

- **Record your math minutes daily. (include time for lessons, seat work, quizzes, etc.)**
- **Add up each week's minutes in the Weekly column.**
- **At the end of the month, add up weekly minutes and enter "Total minutes" for the month!**
- **Drop off, send in, fax, or email to Twindly. Drop off in person for a prize! Reach your goal for the month and earn a monthly prize!**

WEEKLY

TOTAL minutes

NAME:

GRADE:

PARENT SIGNATURE:

DATE:

# How To Develop Mathematicians

## Tips for Keepin' up on Math Skills over Winter Break

- ◊ **Cut out snowflakes as decorations.** Invite your child to describe the shapes they see in their snowflakes and encourage them to tell you what they know about symmetry. Consider delivering holiday cheer by delivering them to a nearby nursing home! Play with the [fractal tool](#) on [Illuminations](#). For a high-school level lesson on creating a Koch snowflake using fractals, see the [activity sheets](#) from [Navigating through Geometry: 9-12](#). \*
- ◊ **Have a problem of the day.** Work through one new problem before or after dinner each night. [Figure This!](#) has an awesome assortment of interesting problems with hints and solutions, so you don't have to be a math wizard to facilitate!
- ◊ **As a family, track your calorie intake or your finances.** Are you consuming more food during the holiday season than you would otherwise? Are you spending money on gifts? Becoming aware is important in establishing control. You may also consider how much time each day you spend on each activity such as watching television, eating, sleeping. [Make a graph](#). Then, brainstorm how you can manage to fit in alternative activities to maintain a healthy lifestyle.
- ◊ **Seek out a volunteer opportunity that appeals to both you and your child.** From cooking for a shelter, to collecting food for a food drive, to collecting coats for the needy, there are lots of opportunities to estimate and use math to project how much your efforts mean to others.
- ◊ **Did your family receive gift cards as holiday gifts?** How will you decide to use them during the holiday sales? Are the same discounts available through online ordering as in the store? Which is more – the cost of shipping or the cost of driving to the store?
- ◊ \* all underlined areas can be reached from: <http://www.nctm.org/resources/content.aspx?id=24049>