

7th Grade Math Choice Board

Activities for the Week of May 4, 2020

Listed below are optional ways to keep the learning going any time, any day! Take your pick!

You can always add 30 minutes per day of iReady Math, and iReady Reading.

Scale Drawings

Melinda has a map of her city. The map uses a scale of 1 inch = 8 mile. Melinda's house is $1\frac{1}{2}$ inches away from the library on the map. How far apart would her house and the library be on the map if the scale were 1 inch = 6 miles?

Absolute Strategy Number Battle

Players: Groups of two
Materials: Deck of cards, Ace worth 11, Jack worth 12, Queen worth 13, King worth 14, scratch paper
Skill: Number recognition, addition, subtraction, multiplication, positive integers, negative integers, and mathematical reasoning

How to Play: Black cards are positive numbers; red cards are negative numbers. Players split a deck of cards and simultaneously flip over their top four (or five) cards. Players may do whatever math manipulation they wish with the numbers to create the smallest result. Players may move the cards and place in any position of the equation they wish. The answer with the lowest absolute value (closest to zero) wins all eight (or ten) cards.

Unique Triangles

Which of the following conditions produces a unique triangle?

- a) A triangle with a 25° angle, an 85° angle, and a 60° angle.
- b) A triangle with a 14° angle, a 31° angle, and a 135° angle.
- c) A triangle with sides of length 4 feet and 3 feet with a non-include angle that measures 70°
- d) A triangle with angles that have a measure of 20° and 110° with an included side of 7 inches.

Integers

Antwon records the outside temperature at 8:00 A.M. and at noon every day. Today the 8:00 A.M. temperature was -3°F and the noon temperature was 1°F . What was the change in the temperature from 8:00A.M to noon today?

Percentages

300 middle-schoolers vote on their favorite sports. 60 of them like hockey. What percentage of the students like hockey?

Our House

You are spending a LOT of time at home these days! Using grid paper, draw out a model of your home. Then, find the area of each room.

Feeling more creative? Draw a model of your DREAM home! In this version, you could add in plenty of rooms for activities to keep you busy during social distancing!

Mental Math- Mall Edition!

Your favorite store is having a 25% off everything sale! You try on everything that catches your eye, love it all, and then realize that 25% off is still far from free.

Graphic Tee	\$3.99
Blue Jeans	\$43.99
Shoes	\$31.99
Watch	\$19.99
Cologne	\$23.99
Jacket	\$47.99

Socks	\$7.99
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a) If you buy something 25% off, what percentage of the original price do you pay? Can you represent both of these percentages in several equivalent ways?

b) If your mom offers to buy you \$200 worth of clothes, which items

from the table to the right can you buy? Come up with a plan based on the 25% discount and sales tax of 10%. Note that you may buy more than one of each should spend as close to \$200 as possible. Describe how you would do the math mentally, in order to avoid being caught doing math at the mall.

