

Middle Level Choice Board (Math)

***Family Guide found on next page.**

Would You Rather . . .

Earn a salary of \$30 000 per year

Or

Earn \$15 per hour while working 40 hours each week?

Source: wouldyourathermath.com


WHICH ONE DOESN'T BELONG?

Which number does not belong and why? What other number does not belong and why? Repeat as many times as you can.

121	16
9	73

Source: wodb.ca

What is the value of the last row?

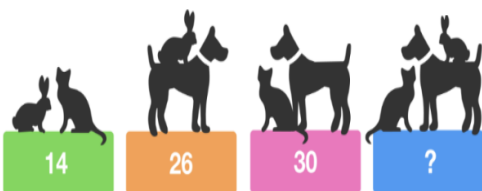


$\text{Book} + \text{Book} + \text{Book} = 21$
 $2 \times \text{Book} + \text{Book} \times 2 = 238$
 $\text{Book} + \text{Book} \times \text{Book} = 48$
 $\text{Book} + \text{Book} \times \text{Book} = ?$

Source: solvemoji.com


How Heavy?

What weight will the fourth scale display? How do you know?



Source: brilliant.org

The Lost Coin



Billy had a coin purse with fifty coins, totaling exactly \$1.00. Unfortunately, while counting them, he dropped one coin behind the radiator.

What is the probability that the coin he dropped was a penny?

Mystery Numbers

Use the digits, 0 through 9, without repeats, to complete the equation below:

$$\begin{array}{r} \square \square \\ + \square \square \\ \hline \square \square \square \end{array}$$

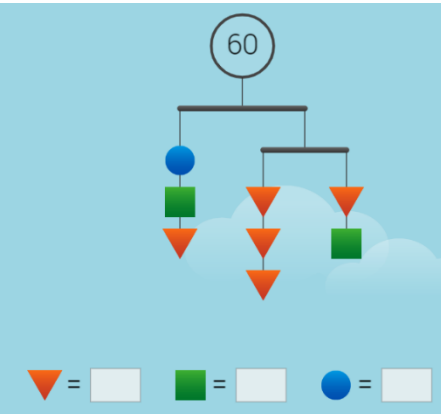
Use the digits 0 to 9, at most one time each, to fill in the boxes so that the sum is as close to 10 as possible.

$$\square \square + \square \square + \square \square \square$$

Source: openmiddle.com

Floating Numbers


Find the value for each shape on the mobile below.



$\blacktriangledown = \square$ $\blacksquare = \square$ $\bullet = \square$


Source: solveme.edc.org

Who Am I?



A certain number consists of two digits. The number is equal to five times the sum of its digits. If you add 9 to the number, the order of its digits is reversed. What is the number?

Scrappy Soap



In the course of making soap, the cutting machine produces scraps. The scraps from 11 bars of soap can be made into one extra bar.

How many bars can be made after cutting 250 bars of soap?

Family Guide for Middle Level Choice Board (Math)

<p>*You can use the second scenario to calculate the annual salary – then compare them.</p> <p>*You could also calculate the monthly income for both scenarios – then compare them.</p>	<p>Sample answer: 16 does not belong because it is the only “even” number (all other numbers are “odd”)</p> <p>*Try and find as many as you can.</p> <p>Challenge: Try and find a reason for each number to be the one that does not belong.</p> <p>*Reasons should be mathematical in nature.</p>	<p>Hint: Start with the first row and find the value of one blue book.</p>
<p>Hint: Try comparing the two middle scales first.</p>	<p>*First determine what coins Billy had in order to equal \$1.00 (fifty coins).</p>	<p>*The two problems are independent of one another.</p> <p>*Not all the digits will be used.</p>
<p>Hint: The top bar totals 60 and is balanced.</p>	<p>Reminder: Sum is the answer to an addition question.</p>	<p>*Remember that scraps are always produced when bars of soap are being made.</p>