

Math Madness #50

1. Use $<$, $>$, or $=$ to compare each pair of decimals.

$$0.008 \quad \underline{<} \quad 0.08$$

$$0.18 \quad \underline{>} \quad 0.018$$

$$0.108 \quad \underline{<} \quad 0.8$$

5. A paintbrush is 7 inches long. Which best describes the length of 6 paintbrushes?

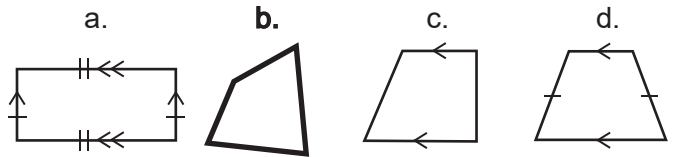
- a. between 5 and 6 feet
- b. between 4 and 5 feet
- c. between 3 and 4 feet**
- d. between 2 and 3 feet

Helpful Hint: 1 foot = 12 feet

2. Twelve people will share 5 quarts of water equally. How much water will each person get?

- a. 12 quarts
- b. $2\frac{2}{5}$ quarts
- c. $\frac{5}{12}$ quart**
- d. $5\frac{1}{2}$ quarts

6. Which illustration shows that some quadrilaterals do not have any parallel sides?



3. Which expression will make this equation true?

$$72 \div 8 = \underline{\hspace{2cm}}$$

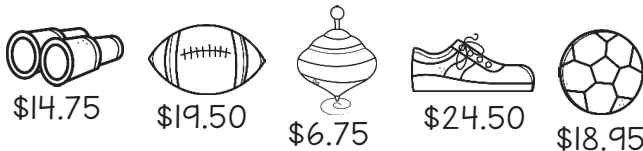
- a. 9×7
- b. 1×9**
- c. 8×9
- d. 1×8

7. This table shows the numbers of different color marbles in a bag. How many outcomes are possible if one marble is randomly picked from the bag?

- a. 4**
- b. 5
- c. 15
- d. 35

Color	Number of Marbles
white	15
blue	10
black	4
gray	0
orange	6

4. Harry has \$30. Which two items can he buy?



- a. soccer ball and binoculars
- b. shoes and spinning top
- c. football and soccer ball
- d. spinning top and football**

8. The table to the right uses a rule to change numbers into new numbers. Which table below could result from the same number machine?

X	Y
160	75
165	80
170	85

a.	b.	c.	d.																																
<table border="1"><tr><th>X</th><th>Y</th></tr><tr><td>15</td><td>110</td></tr><tr><td>20</td><td>115</td></tr><tr><td>25</td><td>120</td></tr></table>	X	Y	15	110	20	115	25	120	<table border="1"><tr><th>X</th><th>Y</th></tr><tr><td>198</td><td>283</td></tr><tr><td>203</td><td>288</td></tr><tr><td>208</td><td>298</td></tr></table>	X	Y	198	283	203	288	208	298	<table border="1"><tr><th>X</th><th>Y</th></tr><tr><td>705</td><td>630</td></tr><tr><td>605</td><td>530</td></tr><tr><td>505</td><td>430</td></tr></table>	X	Y	705	630	605	530	505	430	<table border="1"><tr><th>X</th><th>Y</th></tr><tr><td>500</td><td>415</td></tr><tr><td>550</td><td>465</td></tr><tr><td>600</td><td>515</td></tr></table>	X	Y	500	415	550	465	600	515
X	Y																																		
15	110																																		
20	115																																		
25	120																																		
X	Y																																		
198	283																																		
203	288																																		
208	298																																		
X	Y																																		
705	630																																		
605	530																																		
505	430																																		
X	Y																																		
500	415																																		
550	465																																		
600	515																																		

9 & 10 (2 points) Constructed Response

The rule for this number pattern is "add 6". Fill in the missing numbers.

6, 12, 18, 24, 30, 36, 42

If the pattern continues, will 56 be a part of the pattern?

No, 56 will not be part of the pattern because 56 is not a multiple of 6.