

Math Challenge #13



First Name: _____ Last Name: _____

Grade: _____ Teacher: _____

Party

In this math challenge, you will solve math problems involving planning for a party. Turn your answers in by Thursday, **April 21, 2016**.

Kinder & First Grade: Solve at least 3 problems.

Second & Third Grade: Solve at least 5 problems.

Fourth & Fifth Grade: Solve at least 11 problems.



Use the following information to answer problems 1 to 10.



It's Dominick's birthday party. He helped his mom to prepare for his party. He wanted to serve lemonade & punch in 6 pitchers: three pitchers of lemonade and three pitchers of punch.

1. Dominick needed 6 pitchers to serve drinks at his party but he had only 4 pitchers. **Answer:** _____
How many more pitchers did he need?

2. He finally found all 6 pitchers (red, blue, flower, polka dot, striped, and pink) he needed for the party. He put punch in the flower pitcher, striped pitcher, and pink pitcher. Each pitcher only had one type of drink in it. Which three pitchers did he use for the lemonade? **Answer:** _____



3. Before the party began, Dominick prepared the lemonade and punch in six pitchers. To keep the drinks cool, he put 8 ice cubes in each pitcher just before the guests arrived. How many total ice cubes did he use? **Answer:** _____

4. Each ice cube tray holds 12 ice cubes. How many trays does Dominick need? **Answer:** _____

5. He used 2 packets of lemonade mix for each pitcher of lemonade and 3 packets of punch mix for each pitcher of punch. How many total packets of mix did he use? **Answer:** _____

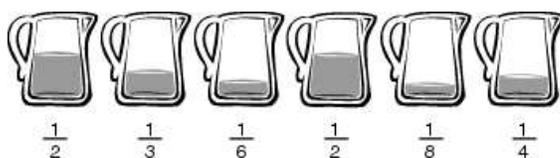
6. Each pitcher can hold 64 ounces of liquid. How much liquid (in ounces) can 6 pitchers hold? **Answer:** _____

7. Dominick also prepared 8 oz. cups. He had 28 guests, mom and dad, and his sister at the party. How many cups did he need if he also needed one for himself? **Answer:** _____

8. If the cups he wanted to purchase are sold by the dozen, how many dozen cups did he have to buy? **Answer:** _____

After the Party

The pitchers below show how much lemonade and punch was left over after the party.



9. If Dominick's mom wanted to put all these leftovers into just two pitchers (she doesn't care about mixing up lemonade and punch), will they fit?

Answer:

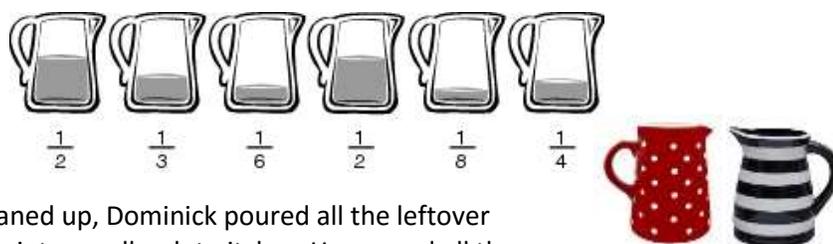
10. Before the cleanup, Dominick looked at what's left. He wanted to put each type of drink away into one pitcher. Use the picture and following clues to find out what's left.

Answer:

- Three pitchers had lemonade and three pitchers had punch.
- Two pitchers had the same amount of liquid. One pitcher contained lemonade; the other contained punch.
- The pitcher that had the least amount of liquid contained lemonade.
- One pitcher of punch was $\frac{1}{3}$ full. That pitcher was twice as full as another pitcher of punch.

Polka-dot pitcher (lemonade):

Stripe pitcher (punch):



As he cleaned up, Dominick poured all the leftover lemonade into a polka-dot pitcher. He poured all the leftover punch into a striped pitcher.

After the cleanup, **how full was the polka-dot pitcher and how full was the striped pitcher?**

11. Each pitcher holds 64 ounces of liquid. How much total liquid (lemonade and punch) did Dominick pour into the two pitchers full of leftovers?

Answer:

12. Dominick invited 28 guests. According to the following 2 clues, how many kids were both in his class and his math club?

Answer:

- Three-fourths of them were from his class
- 10 kids were from his math club.

13. At the party, Dominick served cupcakes. The total number of cupcakes was 4 dozen. One third of the cupcakes were Lemon Berry, 20 were Chocolates Heaven, and the rest were Cookies and Cream. Everyone ate a cupcake or two, and only two Cookies and Cream cupcakes were left. How many Cookies and Cream cupcakes were eaten?

Answer:

14. Dominick rented the club house to have his party. He rented from 1:30 p.m. to 5:15 p.m. Rental charge is \$38 per hour for the first 2 hours, then it is \$8 per additional 15 minutes. How much did he pay for the rental?

Answer:
