SPICY: Read each problem carefully to determine if you should find the <u>GCF</u> or <u>LCM.</u> Show your work and answer the questions in a complete sentence.

1) Tess has collected 48 Disney t-shirts and 9 Disney posters from her visits to Disney World. She wants to combine them into identical sets, with no pieces left over. What is the <u>greatest</u> number of sets Tess can make? How many t-shirts and posters will be in each set? **GCF**

$3\overline{)48 \quad 9}$
$1\overline{)16 \quad 3}$
$3 \cdot 1 = 3$

3 sets with 16 t-shirts + 3 posters in each set

2) Matthew goes hiking every 12 days and swimming every 4 days. He did both kinds of exercise today, Tuesday the 5th. On what day and date will it be? **LCM**

$4\overline{)12 \quad 4}$
$1\overline{)3 \quad 1}$
$4 \cdot 1 \cdot 3 \cdot 1 = 12 \text{ days}$

Sunday, 17th

3) The chorus teachers wants to divide the chorus into smaller groups. There are 96 sopranos, 60 altos, and 36 tenors. Each group must have the same number of students. What is the <u>greatest</u> number of groups that can be formed? How many sopranos, altos, and tenors will be in each group?

	S	A	T
3	96	60	36
4	32	20	12
	8	5	3

$3 \cdot 4 \cdot 1 = 12$

12 groups with
8 sopranos
5 Altos
3 Tenors

4) Starting at 6:00 am, a bus stops at my street corner every 15 minutes. Also starting at 6:00 am, a taxi cab comes by every 21 minutes. What is the next time both a bus and a taxi cab are at the corner at the <u>same time</u>? **LCM**

$3\overline{)15 \quad 21}$
$1\overline{)5 \quad 7}$
105 minutes

7:45 am

5) There are 400 girls and 320 boys who want to participate in a relay race. If each team must have the same combination of girls and boys, what is the <u>greatest</u> number of teams that can race? How many boys and girls will be on each team?

$80\overline{)400 \quad 320}$
$1\overline{)5 \quad 4}$
$80 \cdot 1 = 80$

80 teams with 5 girls and 4 boys in each team

Keep Scrolling...there's 1 more!

6) At the grand opening of a store, the owner gave away stickers and T-shirts to some of the customers.

- A total of 180 customers visited the store at the grand opening.
- Every 10th customer received a free sticker.
- Every 25th customer received a free t-shirt.

a) What is the total number of customers who received a free sticker?

b) What is the total number of customers who received a free t-shirt?
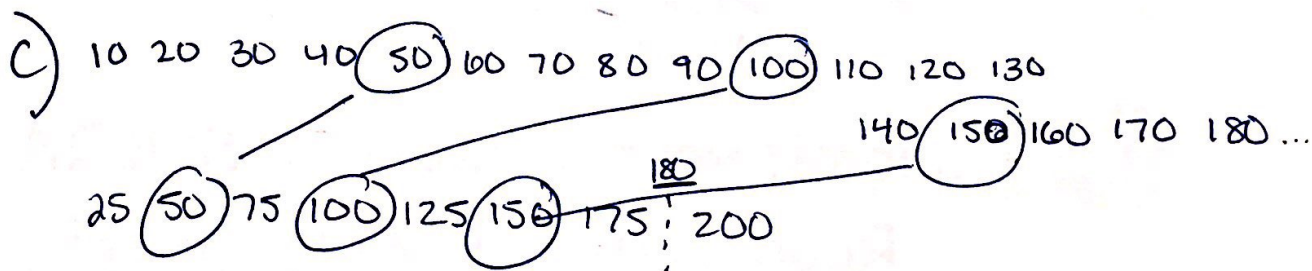
c) What is the total number of customers who received both a free sticker AND a free t-shirt?

sticker
a) $180 \div 10 = 18$ people

t-shirt
b) $180 \div 25 \approx 7$ people

c) 10 20 30 40 (50) 60 70 80 90 (100) 110 120 130

140 (150) 160 170 180 ...

25 (50) 75 (100) 125 (150) 175 | 200
$\frac{180}{}$

3 people got both
sticker + t-shirt!