

# Reasoning and Problem Solving – Fractions Consolidation – Year 4

1.

$$\frac{6}{16} = \frac{3}{8}$$

$$\frac{10}{16} = \frac{5}{8}$$

$$\frac{12}{18} = \frac{2}{3}$$

$$\frac{12}{18} = \frac{10}{15} = \frac{8}{12} = \frac{6}{9} = \frac{4}{6} = \frac{2}{3}$$

2.



4



2



6



6

3. Family 1

$$\frac{3}{6} = \frac{6}{12} = \frac{9}{18} = \frac{18}{36}$$

Family 2

$$\frac{2}{6} = \frac{4}{12} = \frac{6}{18} = \frac{12}{36}$$

Family 3

$$\frac{1}{6} = \frac{2}{12} = \frac{3}{18} = \frac{6}{36}$$

Family 4

$$\frac{5}{6} = \frac{10}{12} = \frac{15}{18} = \frac{30}{36}$$

Blue

$$\frac{3}{18} = \frac{6}{18} = \frac{9}{18} = \frac{15}{18}$$

Green

$$\frac{6}{36} = \frac{12}{36} = \frac{18}{36} = \frac{30}{36}$$

Red

$$\frac{1}{6} = \frac{2}{6} = \frac{3}{6} = \frac{5}{6}$$

Yellow

$$\frac{2}{12} = \frac{4}{12} = \frac{6}{12} = \frac{10}{12}$$

4.

	Cups	Full Bottles
Cherry Juice	13	2
Orange Juice	21	3
Apple juice	15	2

5.

Margarita

$$\frac{2}{8} + \frac{1}{8} + \frac{5}{8} + \frac{2}{8} + \frac{2}{8} + \frac{3}{8} + \frac{1}{8} + \frac{2}{8} + \frac{4}{8} + \frac{2}{8} + \frac{2}{8} + \frac{6}{8} = \frac{32}{8}$$

4 pizzas

Pepperoni

$$\frac{2}{8} + \frac{1}{8} + \frac{4}{8} + \frac{2}{8} + \frac{2}{8} + \frac{5}{8} + \frac{2}{8} = \frac{18}{8}$$

2  $\frac{2}{8}$  pizzas

Hawaiian

$$\frac{3}{8} + \frac{1}{8} + \frac{4}{8} + \frac{4}{8} + \frac{2}{8} + \frac{3}{8} = \frac{17}{8}$$

2  $\frac{1}{8}$  pizzas

Chicken

$$\frac{2}{8} + \frac{2}{8} + \frac{3}{8} + \frac{3}{8} + \frac{2}{8} = \frac{12}{8}$$

1  $\frac{4}{8}$  pizzas

Total

$$4 + 2 \frac{2}{8} + 2 \frac{1}{8} + 1 \frac{4}{8} = 9 \frac{7}{8} \text{ pizzas}$$

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6.

Bun Type	Number eaten	Number left
Strawberry	10	5
Chocolate	10	10
Vanilla	9	3
Blueberry	6	4
Total amount of buns left		22

7.

Toy	Amount
Jigsaw	6
Yo-yo	6
Paint	6

Balloon	Amount
Blue	12
Red	6
Green	0