

Fractional Relationships in Context

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Frank works in a candy shop. He sells two kinds of bags of candy: choco-mint bags and chewy bags. In choco-mint bags there is **1 chocolate for every 4 peppermints**. In chewy bags there are **2 licorice sticks for every 3 gumdrops**. The store offers different-size bags. Complete the chart to show how many pieces of each type of candy Frank needs for different bags.



1	Number of chocolates	$\frac{1}{5}$	$\frac{2}{10}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
	Number of pieces of candy	5	10	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
2	Number of peppermints	$\frac{4}{5}$	$\frac{8}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
	Number of pieces of candy	5	\square	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
3	Number of licorice sticks	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
	Number of pieces of candy	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
4	Number of gumdrops	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
	Number of pieces of candy	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$

- 5 Frank needs to make a choco-mint bag with **50** pieces of candy. How many of each type of candy does he need?

_____ chocolates

_____ peppermints

- 6 Jackie bought a bag with **8** licorice sticks. Her sister bought a bag with **9** gumdrops. Did they buy bags of the same size?

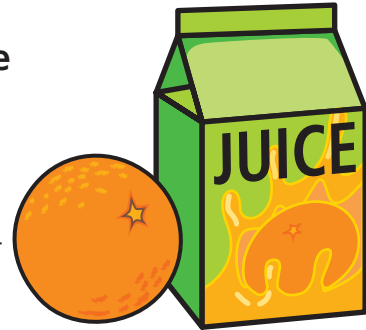


7 The Sports Store sells **6 golf balls for \$1.50**.
The Athletic Store sells **4 golf balls for 80¢**.

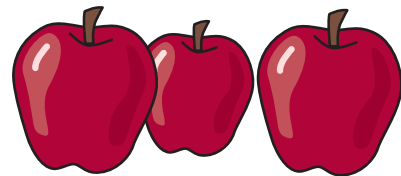
- A How much do **12** golf balls cost at the Sports Store? \$ ____
- B How much do **12** golf balls cost at the Athletic Store? \$ ____
- C At these prices, which store has the better deal for **10** golf balls? How do you know?



8 The grocery store sells **8 ounces of juice for \$1.60**. The fruit stand sells **12 ounces of juice for \$3.00**. Which store has the better deal per ounce? Why?



9 **Challenge** A pound of apples costs **\$2.80**.
How much do $1\frac{1}{2}$ pounds of apples cost?



\$ ____