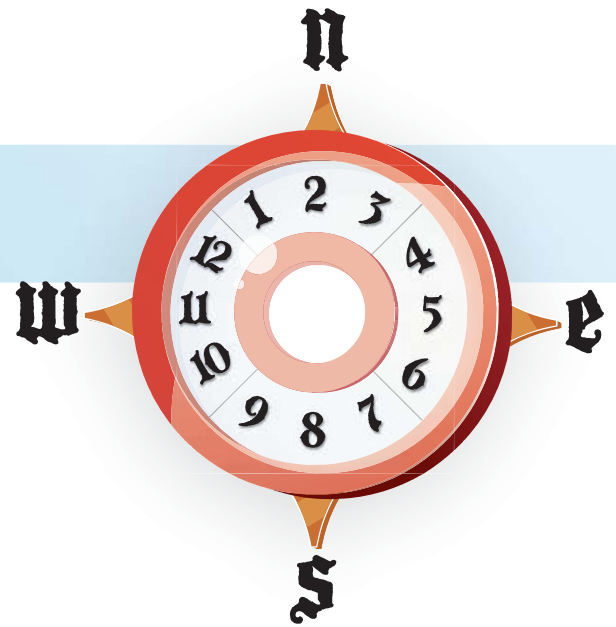


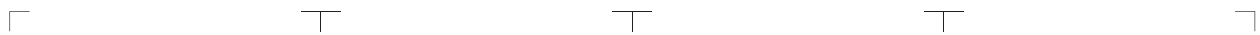


Steer & Simplify #5



Navigate the treacherous seas by simplifying the following fractions. Use the compass on the right to guide you. Start at the red arrow and go north, south, east or west to the next square with each fraction you reduce. Draw a line to track your journey. Show your work.

Compass Instructions: Once you reduce a fraction completely, look at its denominator and then find that number on the compass and move in the direction it points.



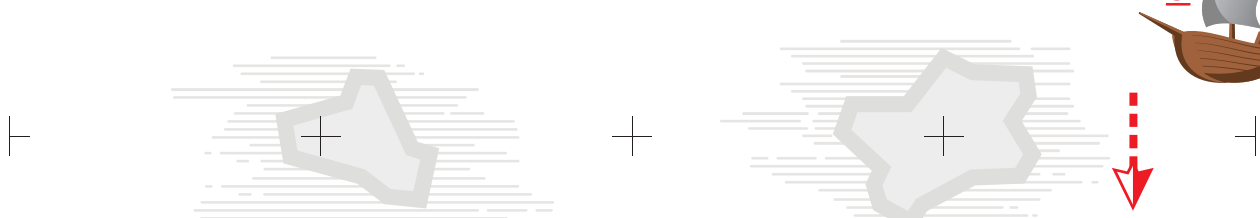
$$\frac{6}{15} = \underline{\hspace{2cm}} \quad \frac{5}{35} = \underline{\hspace{2cm}} \quad \frac{4}{40} = \underline{\hspace{2cm}} \quad \frac{4}{48} = \underline{\hspace{2cm}}$$



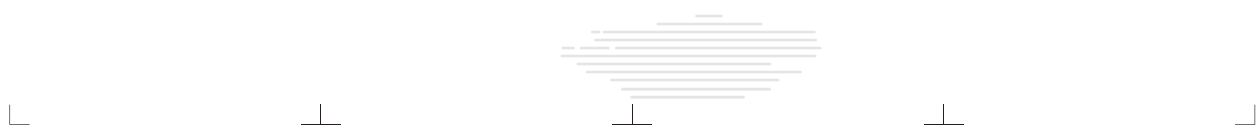
$$\frac{8}{40} = \underline{\hspace{2cm}} \quad \frac{15}{33} = \underline{\hspace{2cm}} \quad \frac{5}{30} = \underline{\hspace{2cm}} \quad \frac{7}{21} = \underline{\hspace{2cm}}$$



$$\frac{2}{8} = \underline{\hspace{2cm}} \quad \frac{9}{12} = \underline{\hspace{2cm}} \quad \frac{3}{6} = \underline{\hspace{2cm}} \quad \frac{28 \div 4}{32 \div 4} = \frac{7}{8}$$



$$\frac{5}{10} = \underline{\hspace{2cm}} \quad \frac{18}{66} = \underline{\hspace{2cm}} \quad \frac{42}{60} = \underline{\hspace{2cm}} \quad \frac{2}{24} = \underline{\hspace{2cm}}$$





Skill Practice 1

Simplifying Fractions

✪ Simplify the following fractions. Show your work.

$$\frac{15}{30} \stackrel{\div 15}{=} \frac{1}{2}$$

$$\frac{16}{80} = \underline{\hspace{2cm}}$$

$$\frac{18}{24} = \underline{\hspace{2cm}}$$

$$\frac{45}{54} = \underline{\hspace{2cm}}$$

$$\frac{55}{66} = \underline{\hspace{2cm}}$$

$$\frac{18}{72} = \underline{\hspace{2cm}}$$

$$\frac{14}{42} = \underline{\hspace{2cm}}$$

$$\frac{27}{54} = \underline{\hspace{2cm}}$$

$$\frac{35}{50} = \underline{\hspace{2cm}}$$

✪ Now that you've got the hang of it, look closely at the following fractions. They do not simplify very well, but they are very close to a simplifiable fraction. For example, **19/60** cannot be simplified, but we know that **20/60 = 1/3**. So, **19/60** can be approximated to **1/3**. Be sure to show your work.

$$\frac{19}{30} \approx \frac{2}{3}$$

$$\frac{14}{41} \approx \underline{\hspace{2cm}}$$

$$\frac{20}{81} \approx \underline{\hspace{2cm}}$$

$$\approx \frac{20 \div 10}{30 \div 10} \rightarrow \frac{2}{3}$$

$$\frac{24}{49} \approx \underline{\hspace{2cm}}$$

$$\frac{17}{80} \approx \underline{\hspace{2cm}}$$

$$\frac{27}{37} \approx \underline{\hspace{2cm}}$$

$$\frac{23}{72} \approx \underline{\hspace{2cm}}$$

$$\frac{13}{21} \approx \underline{\hspace{2cm}}$$

$$\frac{99}{100} \approx \underline{\hspace{2cm}}$$



Skill Practice 2

Simplifying Fractions

✪ Simplify the following fractions. Show your work.

$$\frac{22 \div 22}{66 \div 22} = \frac{1}{3}$$

$$\frac{15}{20} = \frac{\quad}{\quad}$$

$$\frac{28}{42} = \frac{\quad}{\quad}$$

$$\frac{12}{36} = \frac{\quad}{\quad}$$

$$\frac{28}{35} = \frac{\quad}{\quad}$$

$$\frac{24}{40} = \frac{\quad}{\quad}$$

$$\frac{19}{76} = \frac{\quad}{\quad}$$

$$\frac{18}{60} = \frac{\quad}{\quad}$$

$$\frac{23}{46} = \frac{\quad}{\quad}$$

✪ Now that you've got the hang of it, look closely at the following fractions. They do not simplify very well, but they are very close to a simplifiable fraction. For example, **45/61** cannot be simplified, but we know that **45/60 = 3/4**. So, **45/61** can be approximated to **3/4**. Be sure to show your work.

$$\frac{45}{51} \approx \frac{9}{10}$$

$$\frac{11}{45} \approx \frac{\quad}{\quad}$$

$$\frac{13}{24} \approx \frac{\quad}{\quad}$$

$$\approx \frac{45 \div 5}{50 \div 5} \rightarrow \frac{9}{10}$$

$$\frac{23}{30} \approx \frac{\quad}{\quad}$$

$$\frac{89}{90} \approx \frac{\quad}{\quad}$$

$$\frac{31}{36} \approx \frac{\quad}{\quad}$$

$$\frac{37}{72} \approx \frac{\quad}{\quad}$$

$$\frac{49}{64} \approx \frac{\quad}{\quad}$$

$$\frac{10}{61} \approx \frac{\quad}{\quad}$$





Skill Practice 3

Simplifying Fractions

✪ Simplify the following fractions. Show your work.

$$\frac{12 \div 6}{30 \div 6} = \frac{2}{5}$$

$$\frac{20}{24} = \underline{\hspace{2cm}}$$

$$\frac{63}{70} = \underline{\hspace{2cm}}$$

$$\frac{5}{15} = \underline{\hspace{2cm}}$$

$$\frac{27}{45} = \underline{\hspace{2cm}}$$

$$\frac{10}{20} = \underline{\hspace{2cm}}$$

$$\frac{3}{18} = \underline{\hspace{2cm}}$$

$$\frac{18}{27} = \underline{\hspace{2cm}}$$

$$\frac{24}{32} = \underline{\hspace{2cm}}$$

✪ Now that you've got the hang of it, look closely at the following fractions. They do not simplify very well, but they are very close to a simplifiable fraction. For example, **51/100** cannot be simplified, but we know that **50/100 = 1/2**. So, **50/100** can be approximated to **1/2**. Be sure to show your work.

$$\frac{16}{63} \approx \frac{1}{4}$$

$$\approx \frac{16 \div 16}{64 \div 16} \rightarrow \frac{1}{4}$$

$$\frac{75}{99} \approx \underline{\hspace{2cm}}$$

$$\frac{13}{25} \approx \underline{\hspace{2cm}}$$

$$\frac{19}{100} \approx \underline{\hspace{2cm}}$$

$$\frac{11}{72} \approx \underline{\hspace{2cm}}$$

$$\frac{41}{63} \approx \underline{\hspace{2cm}}$$

$$\frac{28}{71} \approx \underline{\hspace{2cm}}$$

$$\frac{24}{99} \approx \underline{\hspace{2cm}}$$

$$\frac{19}{98} \approx \underline{\hspace{2cm}}$$

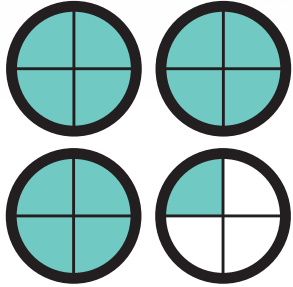


Feed The Kramsters!

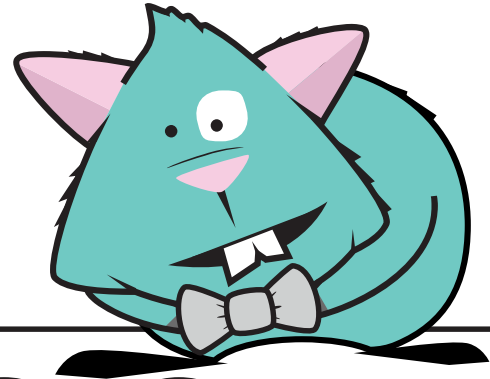
Kramsters are very picky eaters. Feed each kramster the correct number of pellets by converting the following improper fractions to mixed numbers. Color in the pellets to match each mixed number.

EXAMPLE:

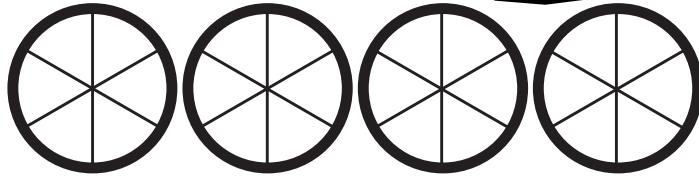
$$\frac{13}{4}$$



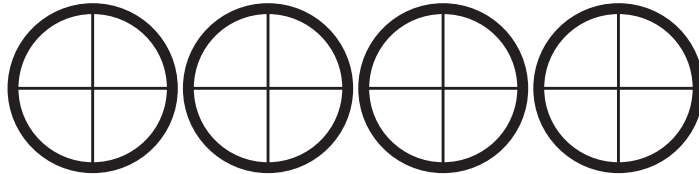
$$\rightarrow 3\frac{1}{4}$$



$$\frac{12}{6}$$



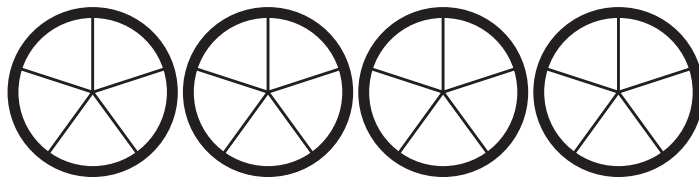
$$\frac{15}{4}$$



$$\frac{3}{2}$$



$$\frac{14}{5}$$



For the last one, shade in the pellets without guidelines.

$$\frac{20}{6}$$

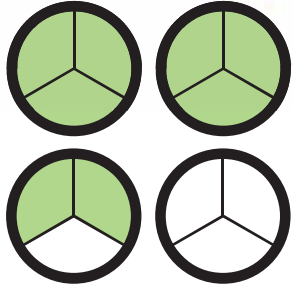


Feed The Kramsters!

Kramsters are very picky eaters. Feed each kramster the correct number of pellets by converting the following improper fractions to mixed numbers. Color in the pellets to match each mixed number.

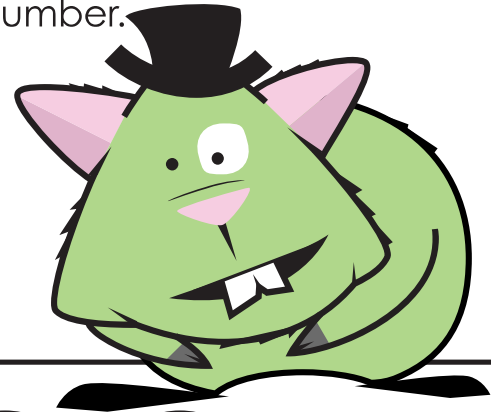
EXAMPLE:

$$\frac{8}{3}$$

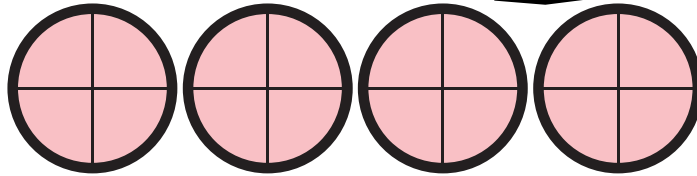


$$\rightarrow 2\frac{2}{3}$$

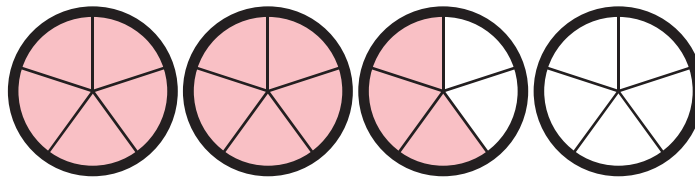
ANSWERS



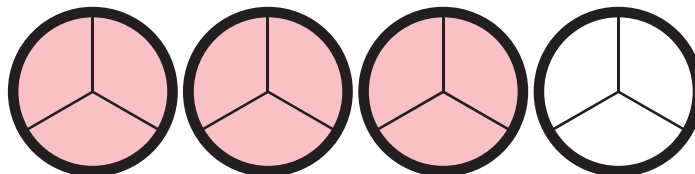
$$\frac{16}{4} = 4$$



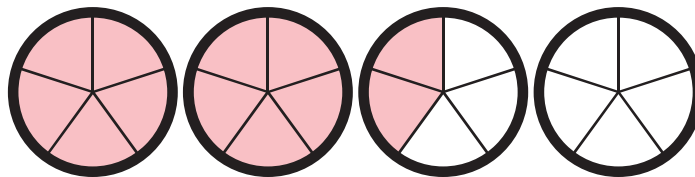
$$\frac{13}{5} = 2\frac{3}{5}$$



$$\frac{9}{3} = 3$$

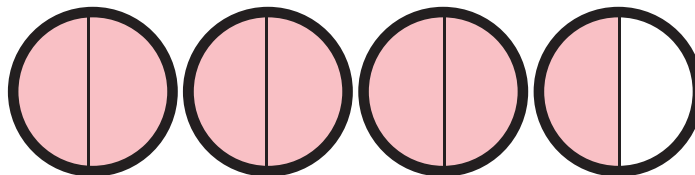


$$\frac{12}{5} = 2\frac{2}{5}$$



For the last one, shade in the pellets using your own outlines.

$$\frac{7}{2} = 3\frac{1}{2}$$

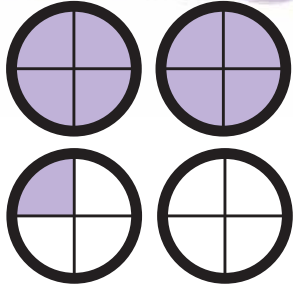


Feed The Kramsters!

Kramsters are very picky eaters. Feed each kramster the correct number of pellets by converting the following improper fractions to mixed numbers. Color in the pellets to match each mixed number.

EXAMPLE:

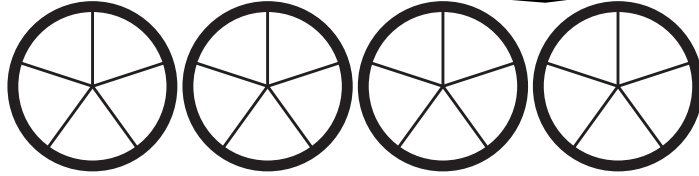
$$\frac{9}{4}$$



$$\rightarrow 2\frac{1}{4}$$



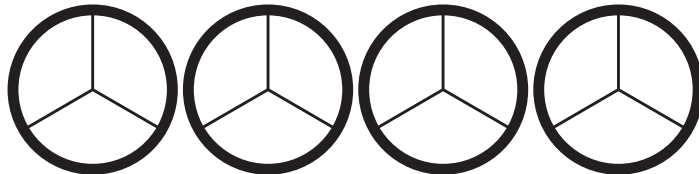
$$\frac{9}{5}$$



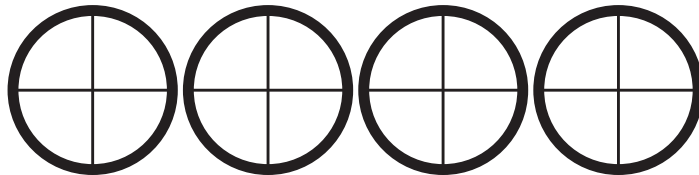
$$\frac{3}{2}$$



$$\frac{10}{3}$$



$$\frac{6}{4}$$



For the last one, shade in the pellets using your own outlines.

$$\frac{16}{5}$$

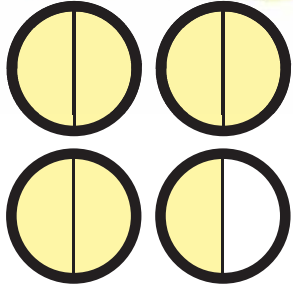


Feed The Kramsters!

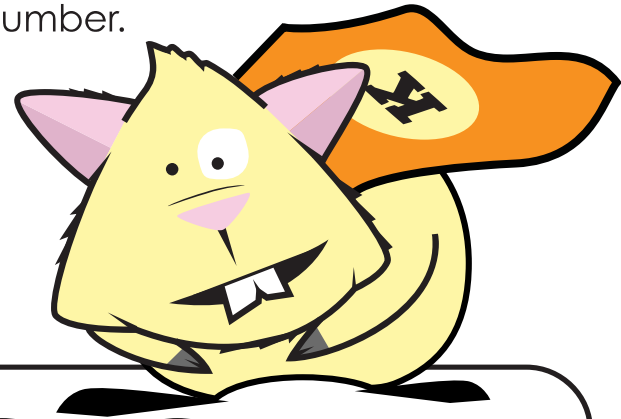
Kramsters are very picky eaters. Feed each kramster the correct number of pellets by converting the following improper fractions to mixed numbers. Color in the pellets to match each mixed number.

EXAMPLE:

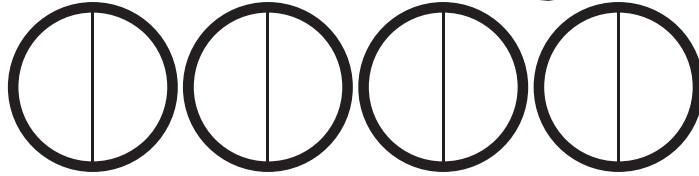
$$\frac{7}{2}$$



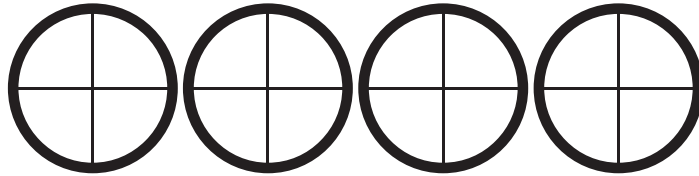
$$\rightarrow 3\frac{1}{2}$$



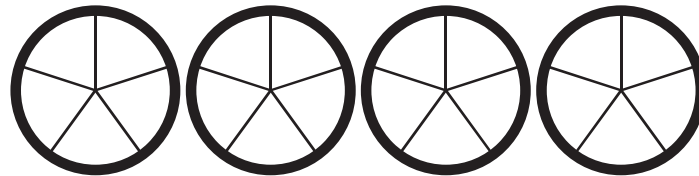
$$\frac{5}{2}$$



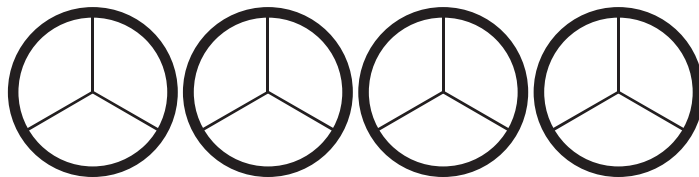
$$\frac{12}{4}$$



$$\frac{11}{5}$$



$$\frac{11}{3}$$



For the last one, shade in the pellets using your own outlines.

$$\frac{10}{4}$$

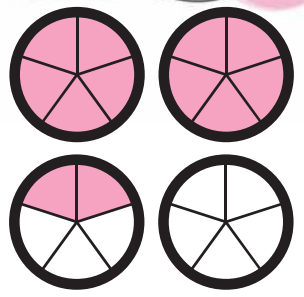


Feed The Kramsters!

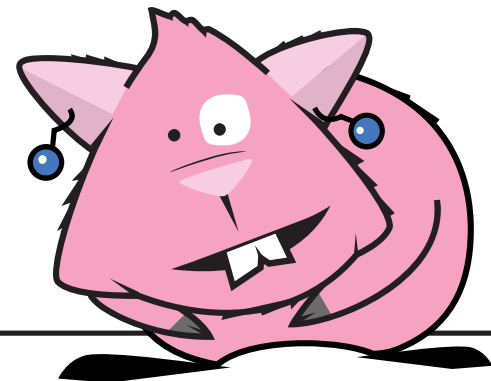
Kramsters are very picky eaters. Feed each kramster the correct number of pellets by converting the following improper fractions to mixed numbers. Color in the pellets to match each mixed number.

EXAMPLE:

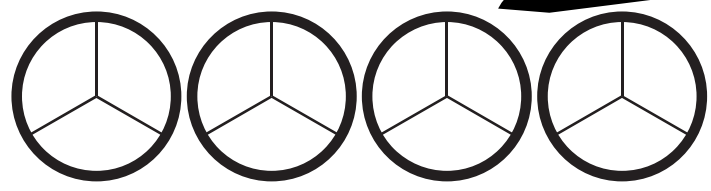
$$\frac{12}{5}$$



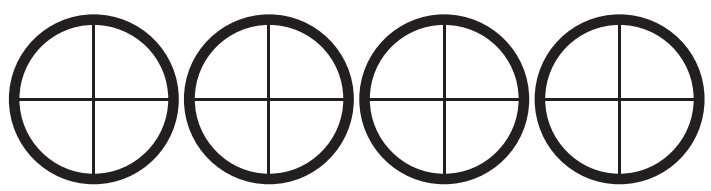
$$\rightarrow 2\frac{2}{5}$$



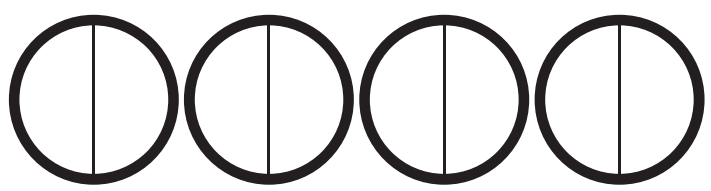
$$\frac{6}{3}$$



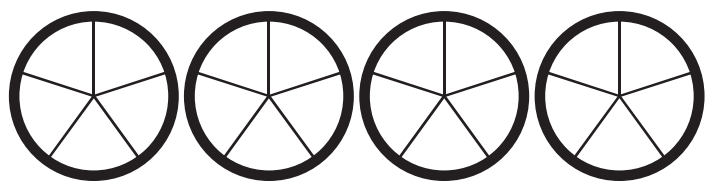
$$\frac{7}{4}$$



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

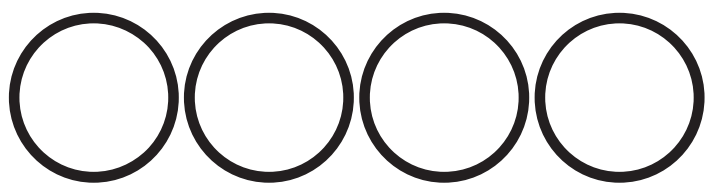


$$\frac{11}{5}$$



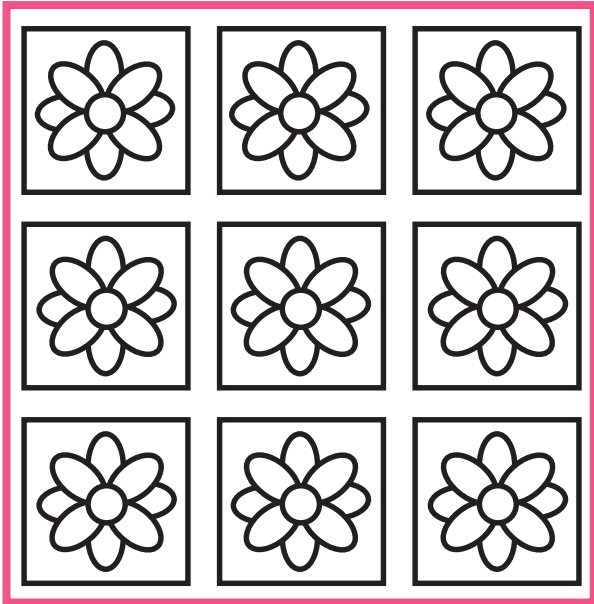
For the last one, shade in the pellets using your own outlines.

$$\frac{9}{4}$$

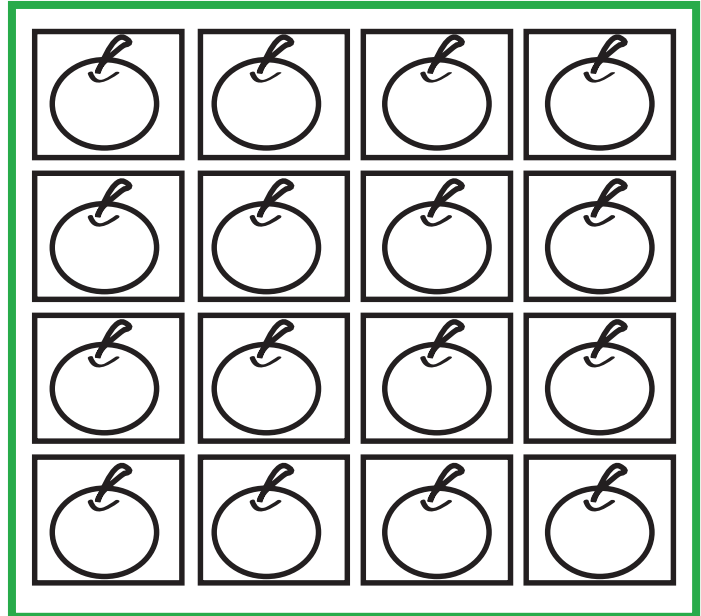


Colorful Plants: Practicing Fractions

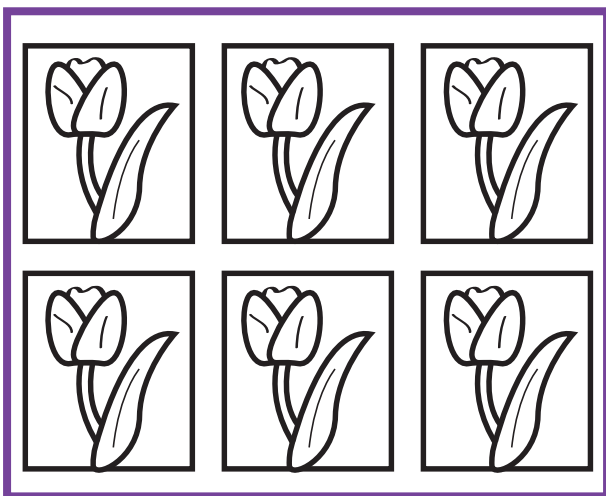
Color in the flowers and fruits according to the description below.



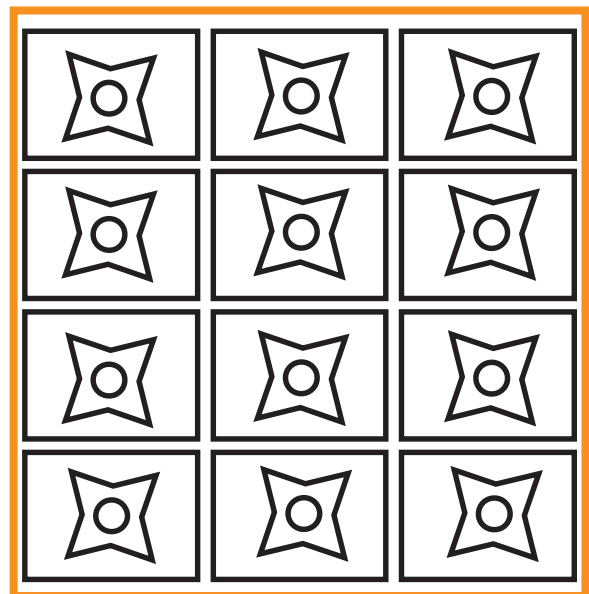
One-third are red flowers.
Two-sixth are in pink.
Three-ninth are in blue.



Two-fourths of the apples are green.
Two-fourths of the rest are red.
What is left are black.



Two-thirds of the tulips are orange.
One-sixth are in pink.
The rest are red.



One-third are red flowers.
One-fourth are in pink.
Half of the rest are in purple.