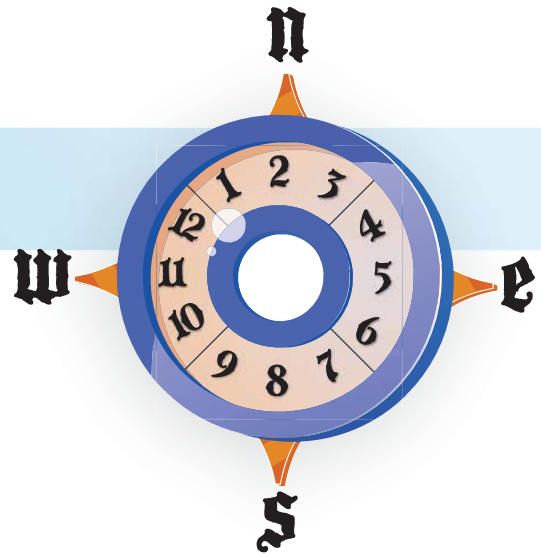


# Answer Sheet

## Answer Sheet

MATH  
FRACTIONS

### Steer & Simplify #4



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.

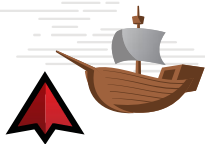
**Compass Instructions:** Once you reduce a fraction completely, look at its denominator and then find that number on the compass and move in the direction it points.

$$\frac{4}{20} = \frac{1}{5} \quad \frac{6}{36} = \frac{1}{6} \quad \frac{18}{45} = \frac{2}{5} \quad \frac{7}{49} = \frac{1}{7}$$

$$\frac{4}{6} = \frac{2}{3} \quad \frac{10}{14} = \frac{5}{7} \quad \frac{27}{90} = \frac{3}{10} \quad \frac{25}{55} = \frac{5}{11}$$

$$\frac{3}{9} = \frac{1}{3} \quad \frac{24}{27} = \frac{8}{9} \quad \frac{20}{25} = \frac{4}{5} \quad \frac{15}{21} = \frac{5}{7}$$

$$\frac{10}{15} = \frac{2}{3} \quad \frac{9}{45} = \frac{1}{5} \quad \frac{4}{8} = \frac{1}{2} \quad \frac{35}{45} = \frac{7}{9}$$

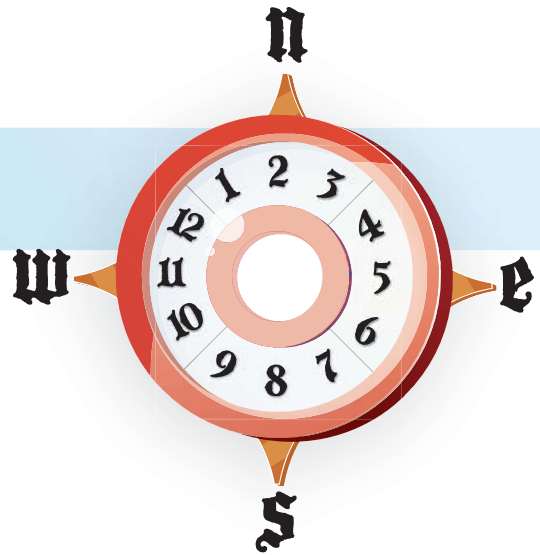


# Answer Sheet

## Answer Sheet

MATH  
FRACTIONS 

### 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.

$\frac{6}{15} = \frac{2}{5}$	$\frac{5}{35} = \frac{1}{7}$	$\frac{4}{40} = \frac{1}{10}$	$\frac{4}{48} = \frac{1}{12}$
$\frac{8}{40} = \frac{1}{5}$	$\frac{15}{33} = \frac{5}{11}$	$\frac{5}{30} = \frac{1}{6}$	$\frac{7}{21} = \frac{1}{3}$
$\frac{2}{8} = \frac{1}{4}$	$\frac{9}{12} = \frac{3}{4}$	$\frac{3}{6} = \frac{1}{2}$	$\frac{28}{32} = \frac{7}{8}$
$\frac{5}{10} = \frac{1}{2}$	$\frac{18}{66} = \frac{3}{11}$	$\frac{42}{60} = \frac{7}{10}$	$\frac{2}{24} = \frac{1}{12}$

*Note: A red dashed line traces a path from the fraction  $\frac{28}{32} = \frac{7}{8}$  (denominator 8, pointing North) to  $\frac{2}{8} = \frac{1}{4}$  (denominator 4, pointing East) to  $\frac{15}{33} = \frac{5}{11}$  (denominator 11, pointing North) to  $\frac{5}{30} = \frac{1}{6}$  (denominator 6, pointing East) to  $\frac{4}{48} = \frac{1}{12}$  (denominator 12, pointing North) to  $\frac{42}{60} = \frac{7}{10}$  (denominator 10, pointing East) to  $\frac{2}{24} = \frac{1}{12}$  (denominator 12, pointing North) to  $\frac{5}{10} = \frac{1}{2}$  (denominator 2, pointing North) to  $\frac{6}{15} = \frac{2}{5}$  (denominator 5, pointing East) to  $\frac{8}{40} = \frac{1}{5}$  (denominator 5, pointing East) to  $\frac{5}{35} = \frac{1}{7}$  (denominator 7, pointing East) to  $\frac{18}{66} = \frac{3}{11}$  (denominator 11, pointing North) to  $\frac{9}{12} = \frac{3}{4}$  (denominator 4, pointing East) to  $\frac{3}{6} = \frac{1}{2}$  (denominator 2, pointing North) to  $\frac{28}{32} = \frac{7}{8}$  (denominator 8, pointing North). A red arrow points to the starting fraction  $\frac{28}{32} = \frac{7}{8}$ . A small boat icon is also present near the starting fraction.*

# Answer Sheet

## Answer Sheet

M A T H  
FRACTIONS



## Skill Practice 1

Simplifying Fractions

☼ Simplify the following fractions. Show your work.

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

$$\frac{16}{80} = \frac{1}{5}$$

$$\frac{18}{24} = \frac{3}{4}$$

$$\frac{45}{54} = \frac{5}{6}$$

$$\frac{55}{66} = \frac{5}{6}$$

$$\frac{18}{72} = \frac{1}{4}$$

$$\frac{14}{42} = \frac{1}{3}$$

$$\frac{27}{54} = \frac{1}{2}$$

$$\frac{35}{50} = \frac{7}{10}$$

☼ 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.

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

$$\frac{14}{41} \approx \frac{1}{3}$$

$$\frac{20}{81} \approx \frac{1}{4}$$

$$\approx \frac{20}{30} \xrightarrow{+10}{+10} \frac{2}{3}$$

$$\frac{24}{49} \approx \frac{1}{2}$$

$$\frac{17}{80} \approx \frac{1}{5}$$

$$\frac{27}{37} \approx \frac{3}{4}$$

$$\frac{23}{72} \approx \frac{1}{3}$$

$$\frac{13}{21} \approx \frac{2}{3}$$

$$\frac{99}{100} \approx 1$$



# Answer Sheet

## Answer Sheet

M A T H  
FRACTIONS



## Skill Practice 2

Simplifying Fractions

☼ Simplify the following fractions. Show your work.

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

$$\frac{15}{20} = \frac{3}{4}$$

$$\frac{28}{42} = \frac{2}{3}$$

$$\frac{12}{36} = \frac{1}{3}$$

$$\frac{28}{35} = \frac{4}{5}$$

$$\frac{24}{40} = \frac{3}{5}$$

$$\frac{19}{76} = \frac{1}{4}$$

$$\frac{18}{60} = \frac{3}{10}$$

$$\frac{23}{46} = \frac{1}{2}$$

☼ 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,  $\frac{45}{61}$  cannot be simplified, but we know that  $\frac{45}{60} = \frac{3}{4}$ . So,  $\frac{45}{61}$  can be approximated to  $\frac{3}{4}$ . Be sure to show your work.

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

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

$$\frac{11}{45} \approx \frac{1}{4}$$

$$\frac{13}{24} \approx \frac{1}{2}$$

$$\frac{23}{30} \approx \frac{4}{5}$$

$$\frac{89}{90} \approx 1$$

$$\frac{31}{36} \approx \frac{8}{9}$$

$$\frac{37}{72} \approx \frac{1}{2}$$

$$\frac{49}{64} \approx \frac{3}{4}$$

$$\frac{10}{61} \approx \frac{1}{6}$$



# Answer Sheet

## Answer Sheet

M A T H  
FRACTIONS



## Skill Practice 3

Simplifying Fractions

☼ Simplify the following fractions. Show your work.

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

$$\frac{20}{24} = \frac{5}{6}$$

$$\frac{63}{70} = \frac{9}{10}$$

$$\frac{5}{15} = \frac{1}{3}$$

$$\frac{27}{45} = \frac{3}{5}$$

$$\frac{10}{20} = \frac{1}{2}$$

$$\frac{3}{18} = \frac{1}{6}$$

$$\frac{18}{27} = \frac{2}{3}$$

$$\frac{24}{32} = \frac{3}{4}$$

☼ 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.

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

$$\frac{75}{99} \approx \frac{3}{4}$$

$$\frac{13}{25} \approx \frac{1}{2}$$

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

$$\frac{19}{100} \approx \frac{1}{5}$$

$$\frac{11}{72} \approx \frac{1}{6}$$

$$\frac{41}{63} \approx \frac{2}{3}$$

$$\frac{28}{71} \approx \frac{2}{5}$$

$$\frac{24}{99} \approx \frac{1}{4}$$

$$\frac{19}{98} \approx \frac{1}{5}$$



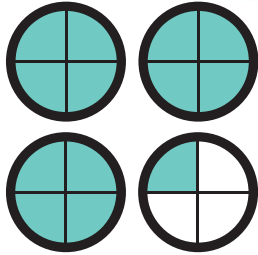
# Answer Sheet

## 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.

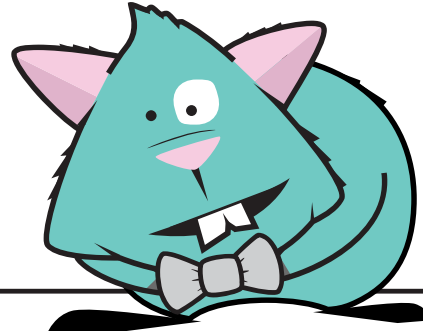
EXAMPLE:

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

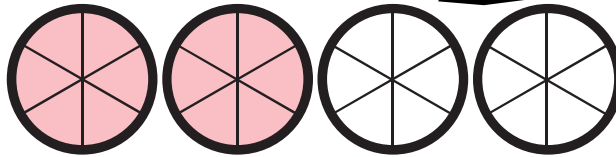


$$\rightarrow 3\frac{1}{4}$$

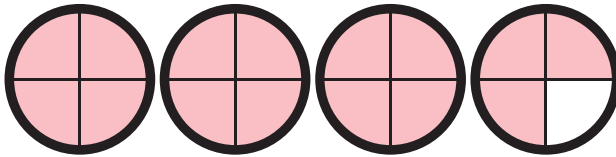
ANSWERS



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



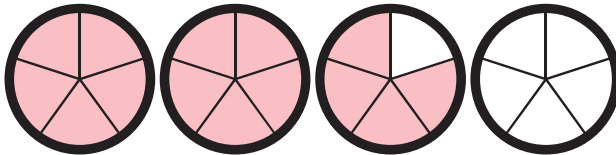
$$\frac{15}{4} = 3\frac{3}{4}$$



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

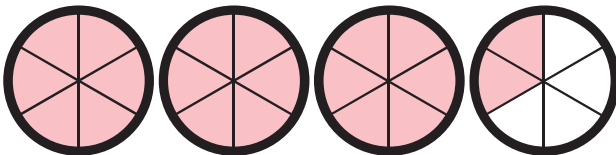


$$\frac{14}{5} = 2\frac{4}{5}$$



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

$$\frac{20}{6} = 3\frac{1}{3}$$



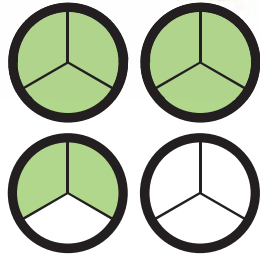
# Answer Sheet

## 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.

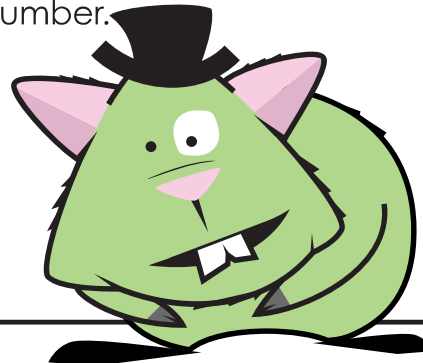
EXAMPLE:

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

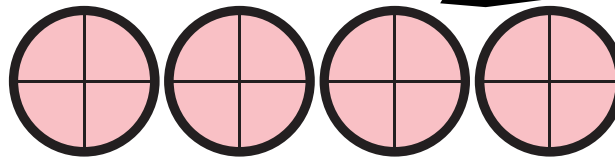


$$\rightarrow 2\frac{2}{3}$$

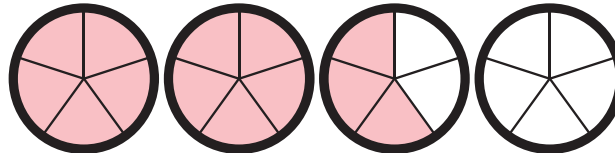
ANSWERS



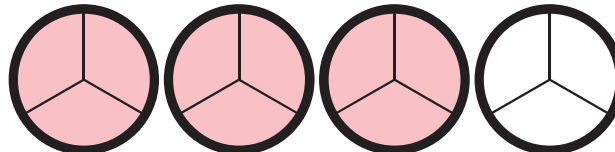
$$\frac{16}{4} = 4$$



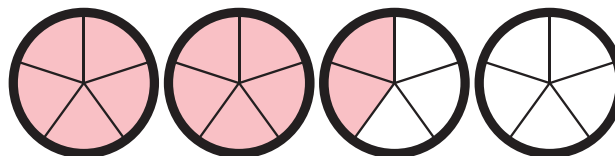
$$\frac{13}{5} = 2\frac{3}{5}$$



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

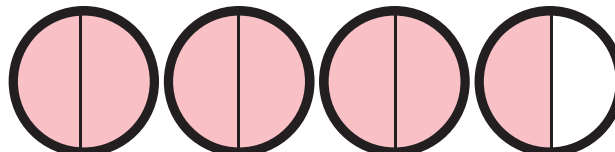


$$\frac{12}{5} = 2\frac{2}{5}$$



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

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





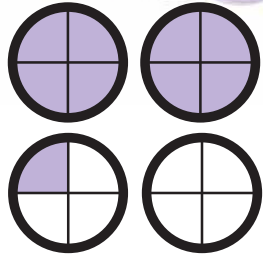
# Answer Sheet

## 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:

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

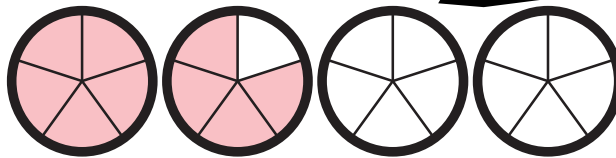


$$\rightarrow 2\frac{1}{4}$$

ANSWERS



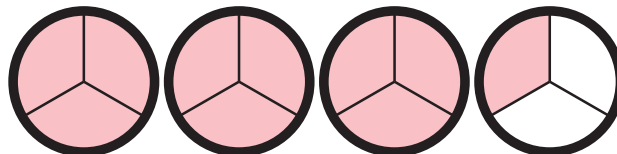
$$\frac{9}{5} = 1\frac{4}{5}$$



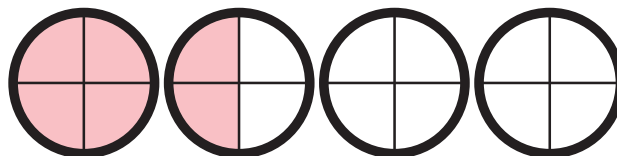
$$\frac{3}{2} = 1\frac{1}{2}$$



$$\frac{10}{3} = 3\frac{1}{3}$$

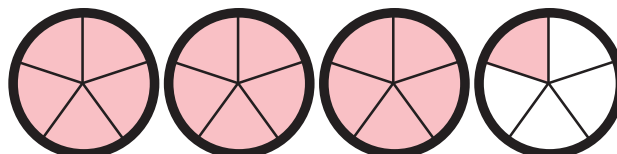


$$\frac{6}{4} = 1\frac{1}{2}$$



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

$$\frac{16}{5} = 3\frac{1}{5}$$





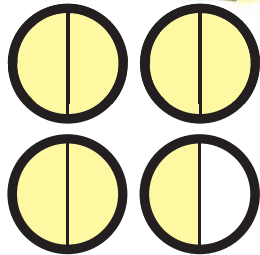
# Answer Sheet

## 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.

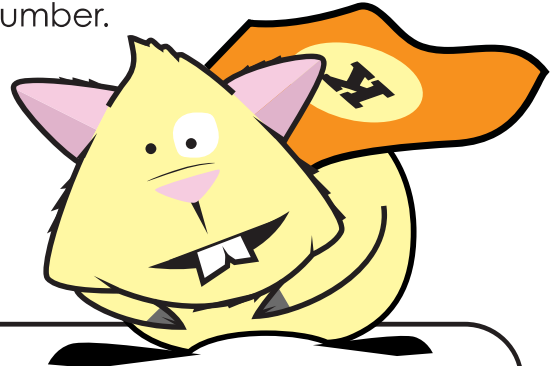
EXAMPLE:

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

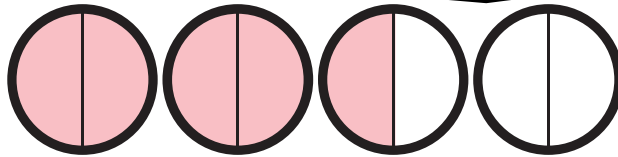


$$\rightarrow 3\frac{1}{2}$$

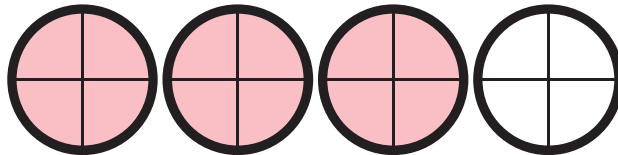
ANSWERS



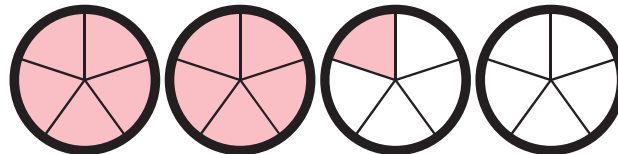
$$\frac{5}{2} = 2\frac{1}{2}$$



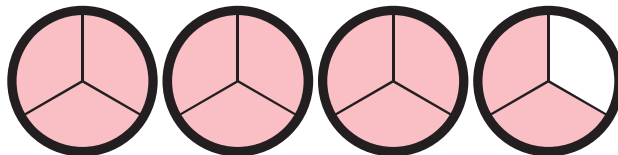
$$\frac{12}{4} = 3$$



$$\frac{11}{5} = 2\frac{1}{5}$$

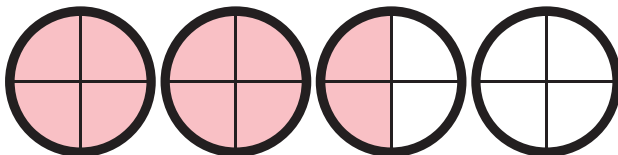


$$\frac{11}{3} = 3\frac{2}{3}$$



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

$$\frac{10}{4} = 2\frac{1}{2}$$



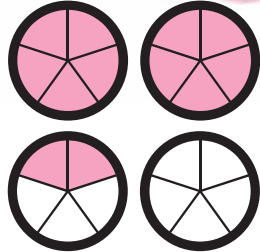
# Answer Sheet

## 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.

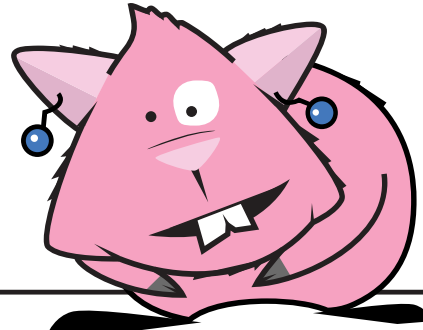
EXAMPLE:

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

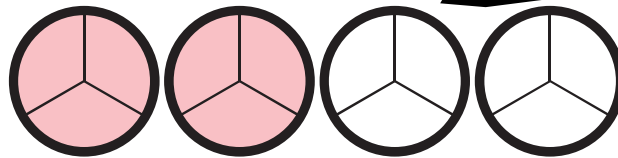


$$\rightarrow 2\frac{2}{5}$$

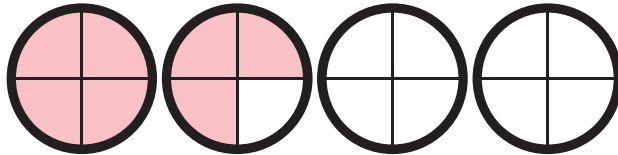
ANSWERS



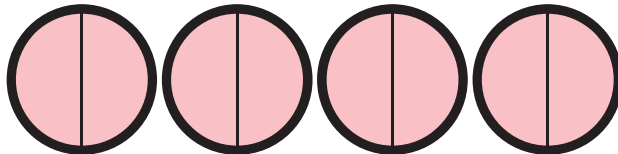
$$\frac{6}{3} = 2$$



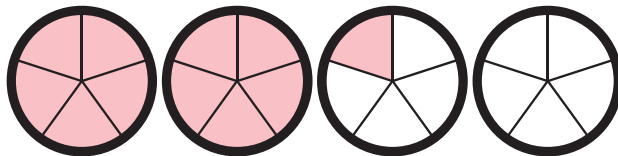
$$\frac{7}{4} = 1\frac{3}{4}$$



$$\frac{8}{2} = 4$$

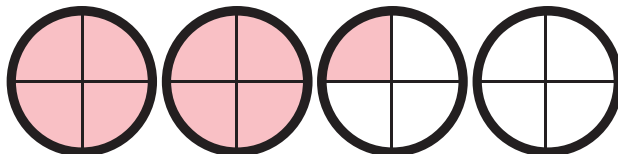


$$\frac{11}{5} = 2\frac{1}{5}$$



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

$$\frac{9}{4} = 2\frac{1}{4}$$

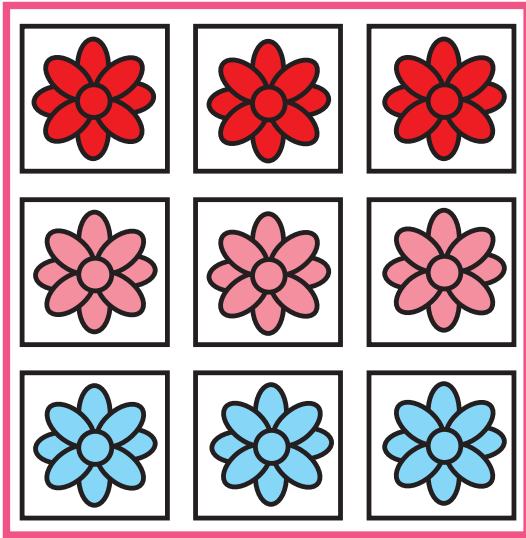


# Answer Sheet

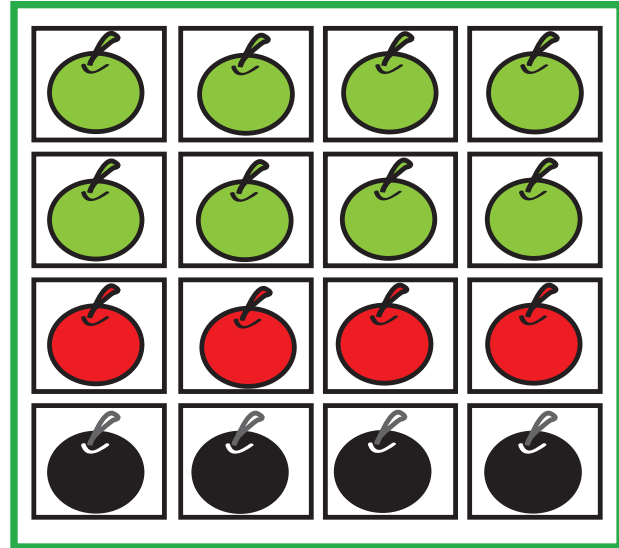
## ANSWER SHEETS

### Colorful Plants: Practicing Fractions

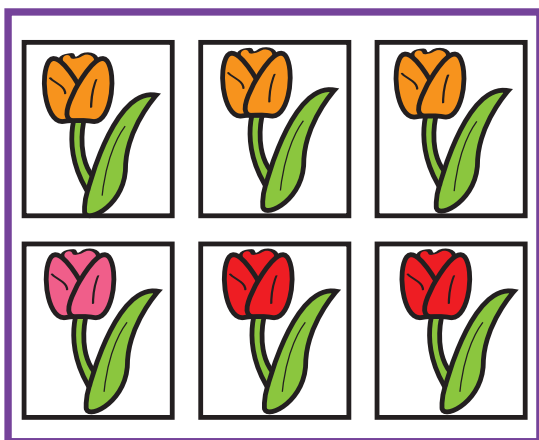
Color in the flowers and fruits according to the description below.



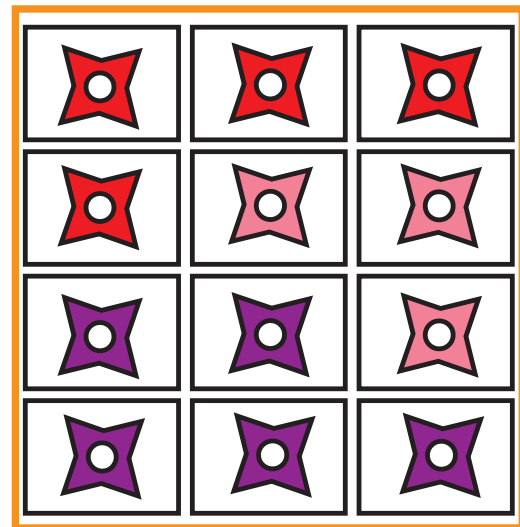
One-third are red flowers.  
Two-sixth are in pink.  
Three-ninth are in blue.



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.  
The rest are purple.

# Answer Sheet

## Ranking Fractions

Rank the fractions in order from the largest to the smallest value and write the order in the space below. *Bonus: Find the row that has two equivalent fractions.*

$$\frac{1}{5}$$

$$\frac{3}{4}$$

$$\frac{1}{3}$$

$$\frac{2}{4}$$

$$\frac{6}{24}$$

$$\frac{3}{4}$$

$$\frac{1}{2}$$

$$\frac{1}{3}$$

$$\frac{6}{24}$$

$$\frac{1}{5}$$

$$\frac{1}{1}$$

$$\frac{12}{30}$$

$$\frac{3}{30}$$

$$\frac{8}{24}$$

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

$$\frac{1}{1}$$

$$\frac{12}{30}$$

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

$$\frac{8}{24}$$

$$\frac{3}{30}$$

equivalent

$$\frac{5}{8}$$

$$\frac{5}{15}$$

$$\frac{15}{20}$$

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

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

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

$$\frac{15}{20}$$

$$\frac{5}{8}$$

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

$$\frac{5}{15}$$

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

$$\frac{50}{50}$$

$$\frac{9}{12}$$

$$\frac{2}{20}$$

$$\frac{7}{10}$$

$$\frac{50}{50}$$

$$\frac{9}{12}$$

$$\frac{7}{10}$$

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

$$\frac{2}{20}$$

$$1$$

$$\frac{50}{100}$$

$$2$$

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

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

$$2$$

$$1$$

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

$$\frac{50}{100}$$

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

$$\frac{1}{2}$$

$$\frac{1}{3}$$

$$\frac{3}{4}$$

$$\frac{4}{5}$$

$$\frac{5}{6}$$

$$\frac{5}{6}$$

$$\frac{4}{5}$$

$$\frac{3}{4}$$

$$\frac{1}{2}$$

$$\frac{1}{3}$$

