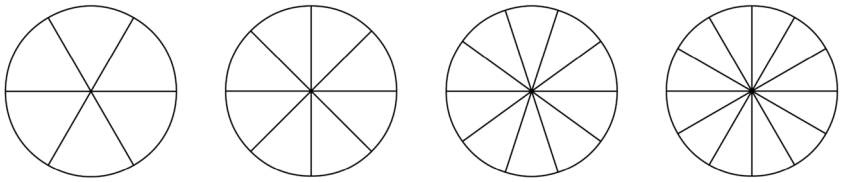
Name _____ Date _____

Master 8.21

Step-by-Step 1

Lesson 1, Question 5



Step 1 In each pizza above, shade the amount that each person ate:
Rhonda: 3 pieces
Apak: 4 pieces
Kayla: 5 pieces
Sunil: 6 pieces

Step 2 What fraction of each pizza is shaded?

Rhonda: _____

Apak: _____

Kayla: _____

Sunil: _____

Step 3 How do the fractions in *Step 2* compare? How do you know?

_____

_____

Step 4 Who's correct—Sunil, who says he ate the most, or Rhonda, who says everyone ate the same amount? Explain.

_____

_____

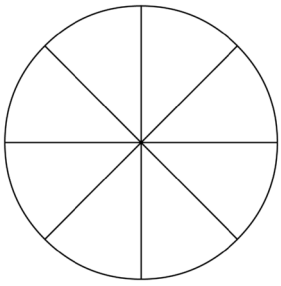
_____

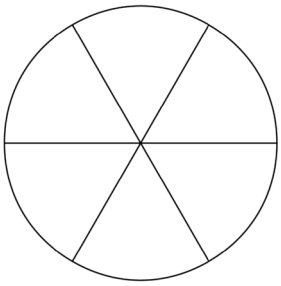
Name _____ Date _____

Master 8.22

Step-by-Step 2

Lesson 2, Question 6





Step 1 How many eighths are in $\frac{1}{2}$ a pie? _____

In a whole pie? _____

Write 3 fractions, with denominator 8, that are greater than $\frac{1}{2}$ but less than 1. _____

Step 2 How many sixths are in $\frac{1}{2}$ a pie? _____

In a whole pie? _____

Write 2 fractions, with denominator 6, that are greater than $\frac{1}{2}$ but less than 1. _____

Step 3 After the party, more than $2\frac{1}{2}$ but less than 3 pies were left.

Look at your answers to *Steps 1* and *2*.

How much pie might have been left? _____

Name _____ Date _____

Master 8.23

Step-by-Step 3

Lesson 3, Question 7

Step 1 A quilt has 20 patches. $\frac{1}{4}$ of the patches are yellow.

Use patterns to find equivalent fractions:

$\frac{1}{4} = \frac{2}{8} = \frac{\square}{12} = \frac{\square}{16} = \frac{\square}{20}$

How many patches out of 20 are yellow? _____

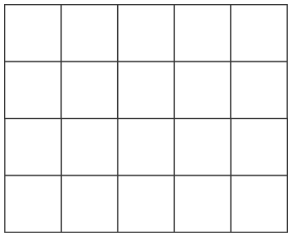
Step 2 $\frac{3}{5}$ of the patches are green.

Use patterns to find equivalent fractions:

$\frac{3}{5} = \frac{\square}{10} = \frac{\square}{15} = \frac{\square}{20}$

How many patches out of 20 are green? _____

Step 3 Colour the patches on the quilt.



Step 4 Colour the rest of the patches red.

How many patches are red? _____

Step 5 What colour are the greatest number of patches? _____

What colour are the least number of patches? _____

Name _____ Date _____

Master 8.24

Step-by-Step 4

Lesson 4, Question 8

Step 1 Choose a decimal less than 0.45. _____

Step 2 Think subtraction.

Subtract your decimal from 0.45 to get the missing number.

0.45 – _____ = _____

Step 3 Write each decimal from *Steps 1* and *2* as a fraction.

_____

Step 4 Repeat *Steps 1* to *3*, choosing a different decimal in *Step 1*.

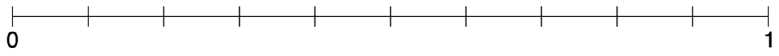
_____

Name _____ Date _____

Master 8.25

Step-by-Step 5

Lesson 5, Question 4



Step 1 How many equal parts are there on the number line above? _____

Label $\frac{7}{10}$ on the number line.

Step 2 What is $\frac{4}{5}$ equivalent to? $\frac{4}{5} = \frac{\square}{10}$

Step 3 Label $\frac{4}{5}$ on the number line above.

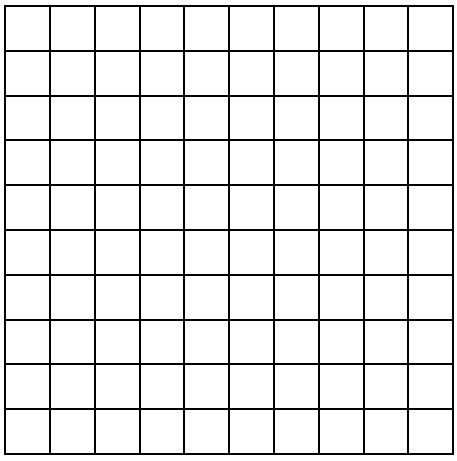
Step 4 Mark the benchmarks 0.25, 0.5, and 0.75 on the number line.

Which benchmark is closest to $\frac{7}{10}$ and $\frac{4}{5}$? _____

Step 5 Shade $\frac{7}{10}$ on a hundredths grid. How many more squares do you need to shade to cover $\frac{4}{5}$ of your grid? Colour these squares with a different colour.

$\frac{7}{10} = \frac{\square}{100}$ and $\frac{4}{5} = \frac{\square}{100}$

Write 5 fractions with denominator 100 that fall between $\frac{7}{10}$ and $\frac{4}{5}$.



Step 6 Write each of these fractions as a decimal.

_____

Name _____ Date _____

Master 8.26

Step-by-Step 6

Lesson 6, Question 6

These are special fractions for eighths: $\frac{48}{8}$, $\frac{56}{8}$, $\frac{64}{8}$, $\frac{72}{8}$

Step 1 Write each of the fractions above as a division statement.

$\frac{48}{8}$ = _____ ÷ _____ $\frac{56}{8}$ = _____ ÷ _____

$\frac{64}{8}$ = _____ ÷ _____ $\frac{72}{8}$ = _____ ÷ _____

Step 2 Find the quotient for each division statement in *Step 1*.

_____

Step 3 What do you notice about all the answers in *Step 2*?

_____

Step 4 Explain why you think the fractions are special.

_____

Step 5 Now look at the special fractions for twelfths. Think of the multiplication facts for 12. Fill in the missing boxes.

☐ ÷ 12 = 1; this special fraction is $\frac{\square}{12}$.

☐ ÷ 12 = 2; this special fraction is $\frac{\square}{12}$.

Step 6 Find 2 more special fractions for twelfths.

_____

Name _____ Date _____

Master 8.27

Step-by-Step 7

Lesson 7, Question 8

Step 1 Estimate 9.47 × 5.

Round 9.47 to the nearest whole number. _____

Step 2 Multiply your answer for *Step 1* by 5. _____

Step 3 Is 9.47 greater than or less than its rounded number? _____

Step 4 Is 9.47 × 5 greater than or less than 45? _____

How do you know? _____

_____

Step 5 Estimate 23.86 ÷ 4.

Round 23.86 to a number compatible with 4. _____

Step 6 Divide your answer for *Step 5* by 4. _____

Step 7 Is 23.86 greater than or less than its rounded number? _____

Step 8 Is 23.86 ÷ 4 greater than or less than 6? _____

How do you know? _____

Name _____ Date _____

Master 8.28

Step-by-Step 8

Lesson 7, Question 8

Step 1 How many gifts does Jakob have? _____

How much ribbon does he need for each gift? _____

Step 2 Write a multiplication sentence to show how much ribbon Jakob needs.

_____

Step 3 Use Base Ten Blocks on a place-value mat.
Model the multiplication.

Step 4 How many ones are on the mat? _____

How many tenths? _____

Step 5 Trade 20 tenths for 2 ones.

How many ones are there now_____

How many tenths? _____

How much ribbon does Jakob need? _____

Step 6 How much ribbon did Jakob buy? _____

Step 7 Compare the amount of ribbon Jakob bought with your answer in *Step 5*.

Does Jakob have enough ribbon? _____

How do you know? _____

_____

Name _____ Date _____

Master 8.29

Step-by-Step 9

Lesson 9, Question 6

Step 1 To estimate 2.49 × 7:

Find 2 × 7. _____ Find 3 × 7. _____

What is a good estimate for 2.49 × 7? _____

Step 2 Estimate each product.
Show how you made the estimate.

3.73 × 4 _____

_____

5.08 × 3 _____

_____

8.2 × 2 _____

_____

Step 3 Show whether each product is greater than (>) or less than (<) 15.

2.49 × 7 ☐ 15 5.08 × 3 ☐ 15

3.73 × 4 ☐ 15 8.2 × 2 ☐ 15

Name _____ Date _____

Master 8.30

Step-by-Step 11

Lesson 11, Question 6

Step 1 How many days in a week does Olav walk to work? _____

How many one-way trips does Olav make each day? _____

Step 2 Use your answers in *Step 1*.
Write a multiplication sentence to show how many one-way trips Olav makes each week.

_____

Step 3 How many kilometres does Olav walk a week? _____

Divide this number by the number of one-way trips Olav makes each week.

_____

Step 4 How far is 1 one-way trip? _____

How far does Olav live from his workplace? _____

Name _____ Date _____

Master 8.31

Step-by-Step 12

Lesson 12, Question 5

Step 1 How much does the tripod cost? _____

How many people are sharing the cost? _____

Write a division statement to find how much each person will pay.

_____

Step 2 Use a calculator to divide.

How much will each person pay? _____

Step 3 How much is the discount? _____

Subtract the discount from the original cost.

$89.46 − _____ = _____

What is the new cost of the tripod? _____

Step 4 Use your answer from *Step 3.*
Write a new division statement to show how much each person will pay.

_____

Use a calculator to divide.

How much did each person pay? _____

