

Learn
BRIGHT

END OF YEAR



GRADE 3

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Teacher Notes

Lesson Title: What Kids Need to Know by the End of Third Grade

Subject: Math

Approximate Grade Level: 3

Objectives: Students will demonstrate an understanding of the basic mathematic calculations for children completing third grade. Teachers will use the lesson to assess students' general mathematical knowledge of students completing the third grade.

Common Core State Standards:
CCSS 3

Class Sessions (45 minutes):
1 – 2 classes

Teaching Materials/Worksheets:
Pre-Assessment
Activity
Post-Assessment

Student Supplies:
Various types of noodles
Masking tape
Marshmallow

Prepare Ahead of Time:
Copy materials.

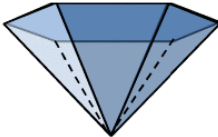
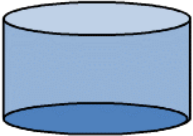
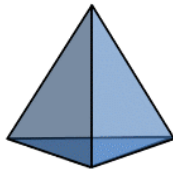
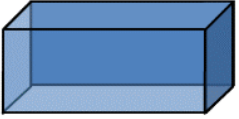


Pre-Assessment

Name _____

Date _____

Instructions: Solve each problem.

<p>Put these numbers in order from greatest to least.</p> <p>9,108 872 9,943 38,961</p>	<p>Pedro bought 3 packages of bubble gum and 2 packages of fruit gum. Each package had 7 pieces of gum. How many pieces of gum did Pedro buy?</p>
<p>The expanded form of a number is shown.</p> $80,000 + 700 + 50 + 2$ <p>What is the standard form of this number?</p>	<p>Heather swam, rode her bike, and ran in a race.</p> <ul style="list-style-type: none">• She spent 16 minutes swimming.• She spent 21 minutes riding her bike.• She spent 32 minutes running. <p>What was the total amount of time Heather spent swimming, riding her bike, and running in a race?</p>
<p>Serafina put a total of 54 cupcakes into packages. She put 6 cupcakes into each package. What is the total number of packages Serafina used for these cupcakes?</p>	<p>Circle the figure that CANNOT be classified as a prism.</p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="text-align: center;"></div><div style="text-align: center;"></div></div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"><div style="text-align: center;"></div><div style="text-align: center;"></div></div>



Stephen had \$173 in his bank account.

- On Tuesday, he put \$50 more into his account.
- On Friday, he took out \$78 to buy a bicycle.

Write an equation to find the amount of money Stephen had in his bank account after taking out money on Friday?

Then solve the equation.

Ally's journal has a square cover with a side length of 26 cm.



What is the perimeter of the cover of Ally's journal in centimeters?

Which comparison and explanation are true?

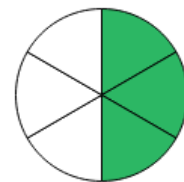
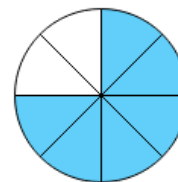
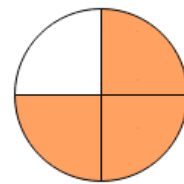
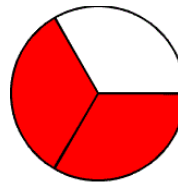
A $\frac{4}{7} < \frac{4}{9}$, because sevenths are larger than ninths

B $\frac{4}{7} < \frac{4}{9}$, because sevenths are larger than ninths

C $\frac{4}{7} > \frac{4}{9}$, because ninths are larger than sevenths

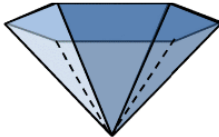
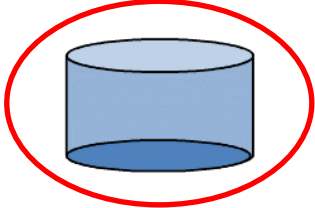
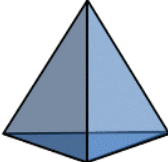
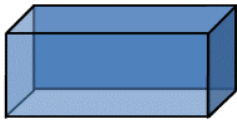
D $\frac{4}{7} > \frac{4}{9}$, because sevenths are larger than ninths

Which two models are shaded to show equivalent fractions?





Instructions: Solve each problem.

<p>Put these numbers in order from greatest to least.</p> <p>9,108</p> <p>872</p> <p>9,943</p> <p>38,961</p> <p>872, 9,108, 9,943, 38,961</p>	<p>Pedro bought 3 packages of bubble gum and 2 packages of fruit gum. Each package had 7 pieces of gum. How many pieces of gum did Pedro buy?</p> <p>$3+2 = 5$</p> <p>$5 * 7 = 35$</p>
<p>The expanded form of a number is shown.</p> <p>$80,000 + 700 + 50 + 2$</p> <p>What is the standard form of this number?</p> <p>80,752</p>	<p>Heather swam, rode her bike, and ran in a race.</p> <ul style="list-style-type: none"> • She spent 16 minutes swimming. • She spent 21 minutes riding her bike. • She spent 32 minutes running. <p>What was the total amount of time Heather spent swimming, riding her bike, and running in a race?</p> <p>$16+21+32 = 69$ minutes = 1 hour and 9 minutes</p>
<p>Serafina put a total of 54 cupcakes into packages. She put 6 cupcakes into each package. What is the total number of packages Serafina used for these cupcakes?</p> <p>9 packages</p>	<p>Circle the figure that CANNOT be classified as a prism.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>



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- On Tuesday, he put \$50 more into his account.
- On Friday, he took out \$78 to buy a bicycle.

Write an equation to find the amount of money Stephen had in his bank account after taking out money on Friday?

Then solve the equation.

$$173 + 50 - 78 = ?$$

\$145

Ally's journal has a square cover with a side length of 26 cm.



What is the perimeter of the cover of Ally's journal in centimeters?

$$26 + 26 + 26 + 26 = 26 \times 4 = 104 \text{ cm}$$

Which comparison and explanation are true?

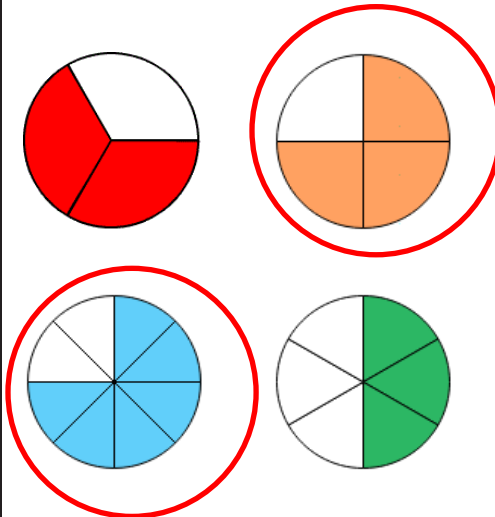
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D $\frac{4}{7} > \frac{4}{9}$, because sevenths are larger than ninths

Which two models are shaded to show equivalent fractions?





Tallest Tower

Your mission is to create the tallest tower to support a marshmallow in 15 minutes! Your supplies are noodles and 1 yard of masking tape. At the end of the time, the marshmallow will be placed on the top of the tower. If your tower holds the marshmallow and is the tallest, then you win the challenge!

1. Keep track of the type of noodle you use and the total number used.

Create a tally chart and bar graph of your noodles.

2. Write the fraction of noodles used to inches of tape.

3. Write the number of noodles used in expanded form.

4. Measure your tower in inches.

5. How many towers could hold the marshmallow?

6. If there are 50 noodles in a package, how many packages were used by the class?



Instructions: Solve each problem.


Arjun has two boxes of paperclips. One box has 384 paper clips, and the other box has 577 paper clips. How many paper clips does Arjun have in both boxes?

Sven, Leif, and Amy each brought an ice chest to a soccer game.

- The weight of Sven’s ice chest was 64 pounds.
- The weight of Leif’s ice chest was 24 pounds.
- The weight of Amy’s ice chest was 38 pounds.

What was the difference in pounds between the weight of Sven’s ice chest and the combined weight of Leif’s and Amy’s ice chests?

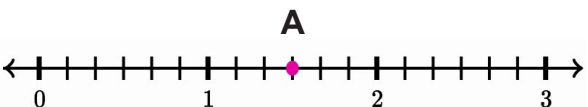
Donna used the money shown to buy a snack.



What amount of money did Donna use to buy the snack?

There are 4 photographs on each page of a history book. How many photographs are on 8 pages of the history book?

Point A on the number line represents two equivalent fractions.



Which two equivalent fractions can point A represent?

A $\frac{1}{4}$ and $\frac{1}{8}$

B $\frac{1}{3}$ and $\frac{2}{6}$

C $\frac{1}{2}$ and $\frac{2}{4}$

D $\frac{1}{4}$ and $\frac{3}{4}$

Georgia made a chart to show the side lengths and perimeters of three figures.

Figures	Side Lengths (yds)	Perimeter (yds)
Rectangle	4, 8, 4, 8	24
Triangle	4, 7, 8	19
Square	4, 4, 4, 4	18

What mistake, if any, did Georgia make?



Post Assessment

Name _____ Date _____



A container of liquid laundry detergent at a grocery store is marked with the volume of detergent inside. Which units of measurement could be marked on the container?

Grams	Inches
Liters	Kilometers
Pounds	Ounces

Brooke listed the amounts she paid for keyboard lessons for three months.

- February: \$82
- March: \$70
- April: \$106

What is the amount Brooke paid for keyboard lessons for these three months?

The shaded figure on the grid represents Helen's lawn.

What is the area in square meters of Helen's lawn?

What is the number 17,403 in expanded form?



Instructions: Solve each problem.

Arjun has two boxes of paperclips. One box has 384 paper clips, and the other box has 577 paper clips. How many paper clips does Arjun have in both boxes?

$$384 + 577 = 961 \text{ paperclips}$$

Sven, Leif, and Amy each brought an ice chest to a soccer game.

- The weight of Sven's ice chest was 64 pounds.
- The weight of Leif's ice chest was 24 pounds.
- The weight of Amy's ice chest was 38 pounds.

What was the difference in pounds between the weight of Sven's ice chest and the combined weight of Leif's and Amy's ice chests?

$$64 - (24 + 38) = ?$$

$$64 - 62 = 2 \text{ pounds}$$

Donna used the money shown to buy a snack.

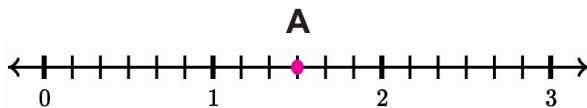


What amount of money did Donna use to buy the snack? $\$2.49$

There are 4 photographs on each page of a history book. How many photographs are on 8 pages of the history book?

$$4 * 8 = 32 \text{ photographs}$$

Point A on the number line represents two equivalent fractions.



Which two equivalent fractions can point A represent?

A $1/4$ and $1/8$

B $1/3$ and $2/6$

C $1/2$ and $2/4$

D $1/4$ and $3/4$

Georgia made a chart to show the side lengths and perimeters of three figures.

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Rectangle	4, 8, 4, 8	24
Triangle	4, 7, 8	19
Square	4, 4, 4, 4	18

What mistake, if any, did Georgia make?

The perimeter of the square should be 16.



Post Assessment

Name _____ Answer Key _____ Date _____



A container of liquid laundry detergent at a grocery store is marked with the volume of detergent inside. Which units of measurement could be marked on the container?

Grams Inches
Liters Kilometers
Pounds **Ounces**

Brooke listed the amounts she paid for keyboard lessons for three months.

- February: \$82
- March: \$70
- April: \$106

What is the amount Brooke paid for keyboard lessons for these three months?

$82 + 70 + 106 = \$258$

The shaded figure on the grid represents Helen's lawn.

What is the area in square meters of Helen's lawn?

42 square meters

What is the number 17,403 in expanded form?

$10,000 + 7,000 + 400 + 3$