

## Thank you!

Catherine Wiist @ Abc|23is4me
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## Credits:


$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Grade 3



## Lesson 8.I:

How do you measure to the nearest $/ /$ inch? $^{\text {inch }}$
1.

a. Make a dot at $2 \frac{1}{2}$ inches from 0 . Label it with the letter $A$.
b. Make a dot at $1 \frac{3}{4}$ inches from 0 . Label it with the letter $B$.
c. Make a dot at $1 \frac{1}{4}$ inches from 0 . Label it with the letter $C$.
2. Measure the line segment below to the nearest $1 / 4$ inch.
about $\qquad$ in.

## Lesson 8.2:

What strategies can be used to solve extended multiplication and division facts?

Write a helper fact and use it to help you solve.
a. $2 \times 70=$

Fact I used to help:
b. $40 \times 5=$ $\qquad$
Fact I used to help:
c. $6 \times 90=$

Fact I used to help:

Use the helper fact to help you fill in the missing factors.
d. Helper fact: $9 \times 2=$ $\qquad$ $90 \times$ $\qquad$ $=180$
e. Helper fact: $\quad=6 \times 5$
$300=$ $\qquad$ $\times 5$
f. Helper fact: $5 \times 5=$ $\qquad$
$\ldots \quad \times 50=250$

## Lesson 8.3:

How do you identify factors of counting numbers?
Write in factor pairs to make the number sentences true.
$\qquad$
$\qquad$ $=12$
$16=$ $\qquad$ x $\qquad$ $x$ $\qquad$ $=30$

## Lesson 8.4:

How do you use clues to make conjectures and arguments to show if the statement is accurate?

1. There are 16 clowns marching in a parade. The clowns are supposed to march in rows with the same amount of clowns in each row. Find two different ways that the clowns can be arranged. Draw a sketch that shows each arrangement.

2. Which way is better? Explain your reasoning.

## Lesson 8.5:

How do you find products for a given factor?

1. Here is a Factor Bingo game mat. You draw a 3 card. Circle at least two products with a factor of 3 .

| 10 | 14 | 7 | 6 | 5 |
| :---: | :---: | :---: | :---: | :---: |
| 12 | 11 | 8 | 13 | 24 |
| 19 | 22 | 15 | 26 | 23 |
| 29 | 9 | 20 | 17 | 25 |
| 18 | 28 | 16 | 31 | 21 |

2. Here is a game mat for Speed Factor Bingo.

| 5 | 7 | 8 | 6 | 80 |
| :---: | :---: | :---: | :---: | :---: |
| 12 | 11 | 7 | 40 | 24 |
| 28 | 22 | 20 | 26 | 23 |
| 29 | 70 | 20 | 17 | 25 |
| 10 | 19 | 31 | 16 | 90 |

In Speed Factor Bingo, a player draws a card and covers all the products that have that number as a factor.

Name a factor card that would allow a player to get a bingo in one turn.

Draw a line through the row, column, or diagonal to show the bingo.

## Lesson 8.6:

How is money shared equally?
Four friends want to share $\$ 52$. They have $\$ 10$ bills and $\$ 1$ bills.
They can exchange larger bills for smaller bills if they need to. Write a number model. Use numbers or pictures to show how you solved the problem.

The letter $\qquad$ stands for
(number model with letter for unknown)

Answer: Each friend gets \$ $\qquad$ .

## Lesson 8.7:

Exploration A: How do you plot fractions on a number line?

Plot the following fractions on the number line below. | $\frac{3}{6}$ | $\frac{0}{2}$ | $\frac{6}{6}$ | $\frac{1}{8}$ | $\frac{7}{8}$ | $\frac{1}{3}$ | $\frac{2}{3}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |



Exploration B: How do you construct a rectangle when given its area?
Construct a rectangle with an area of 12 square units.
What is the length of one side? $\qquad$ units

What is the length of the other side? $\qquad$ units


Exploration C: How do you identify equivalent fractions using fraction circles?


What fraction of the whole is missing? $\qquad$

$$
\square=\square
$$

## Lesson 8.8:

How can you identify prisms given their attributes?

1. Explain why the shape in this picture is a cube.
2. Luke says this is a picture of a triangular prism.


Explain why you agree or disagree?


Test Date: $\qquad$ - $\qquad$

## Grade 3



## Lesson 8.I:

How do you measure to the nearest $1 / \Psi$ inch?
1.

a. Make a dot at $2 \frac{1}{2}$ inches from 0 . Label it with the letter $A$.
b. Make a dot at $13 / 4$ inches from 0 . Label it with the letter $B$.
c. Make a dot at $1 \frac{1}{4}$ inches from 0 . Label it with the letter $C$.
2. Measure the line segment below to the nearest $1 / 4$ inch.
about $3 \frac{1}{4} \mathrm{in}$.

## Lesson 8.2:

What strategies can be used to solve extended multiplication and division facts?

Write a helper fact and use it to help you solve.
a. $2 \times 70=140$

Fact I used to help:
$2 \times 7=14$
b. $40 \times 5=\underline{200}$

Fact I used to help:

$$
4 \times 5=20
$$

c. $6 \times 90=\underline{540}$

Fact I used to help:

Use the helper fact to help you fill in the missing factors.
d. Helper fact: $9 \times 2=18$

$$
90 \times 2=180
$$

e. Helper fact: $30=6 \times 5$

$$
300=\underline{60} \times 5
$$

f. Helper fact: $5 \times 5=\underline{25}$
$5 \times 50=250$

## Lesson 8.3:

How do you identify factors of counting numbers?
Write in factor pairs to make the number sentences true.
$\qquad$ $x \quad=12$
$16=$ $\qquad$ X $\square$ $x$ $\qquad$ $=30$

## Lesson 8.4:

How do you use clues to make conjectures and arguments to show if the statement is accurate?

1. There are 16 clowns marching in a parade. The clowns are supposed to march in rows with the same amount of clowns in each row. Find two different ways that the clowns can be arranged. Draw a sketch that shows each arrangement.

2. Which way is better. Explain your reasoning.

## Answers will vary

## Lesson 8.5:

How do you find products for a given factor?

1. Here is a Factor Bingo game mat. You draw a 3 card. Circle at least two products with a factor of 3 .

| 10 | 14 | 7 | 6 | 5 |
| :---: | :---: | :---: | :---: | :---: |
| 12 | 11 | 8 | 13 | 24 |
| 19 | 22 | 15 | 26 | 23 |
| 29 | 9 | 20 | 17 | 25 |
| 18 | 28 | 16 | 31 | 21 |

2. Here is a game mat for Speed Factor Bingo.

| 5 | 7 | 8 | 6 | 80 |
| :---: | :---: | :---: | :---: | :---: |
| 12 | 11 | 7 | 40 | 24 |
| 28 | 22 | 20 | 26 | 23 |
| 29 | 70 | 20 | 17 | 25 |
| 10 | 19 | 31 | 16 | 90 |

In Speed Factor Bingo, a player draws a card and covers all the products that have that number as a factor.

Name a factor card that would allow a player to get a bingo in one turn.

$$
5 \text { or } 10
$$

Draw a line through the row, column, or diagonal to show the bingo.

## Lesson 8.6:

How is money shared equally?
Four friends want to share $\$ 52$. They have $\$ 10$ bills and $\$ 1$ bills.
They can exchange larger bills for smaller bills if they need to.
Write a number model. Use numbers or pictures to show how you solved the problem.

The letter _ D stands for number of dollars ealch friend gets.

$$
52 \div 4=D \text { or } 4 \times D=52
$$

(number model with letter for unknown)


## Lesson 8.7:

Exploration A: How do you plot fractions on a number line?

Plot the following fractions on the number line below. | $\frac{3}{6}$ | $\frac{0}{2}$ | $\frac{6}{6}$ | $\frac{1}{8}$ | $\frac{7}{8}$ | $\frac{1}{3}$ | $\frac{2}{3}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |



Exploration B: How do you construct a rectangle when given its area? AnSWers Will Vary
Construct a rectangle with an area of 12 square units.
What is the length of one side? $\qquad$ units

What is the length of the other side? $\qquad$ units

Exploration C: How do you identify equivalent fractions using fraction circles?


What fraction of the whole is missing? $2 / 6$

$$
\begin{array}{|l|}
\hline 2 \\
6
\end{array}=\frac{1}{3}
$$

## Lesson 8.8:

How can you identify prisms given their attributes?

1. Explain why the shape in this picture is a cube.

The shape of its bases are squares.
That is why it is called a cube (or a rectangular prism).
2. Luke says this is a picture of a triangular prism.


Explain why you agree or disagree?
sample answer: I disagree because its bases are rectangies.

