TCLAS
4th & 5th
Grade
WORKSHOP
4th Six Weeks

McALLEN

INDEPENDENT SCHOOL DISTRICT

EXAMPLE 1: Which shaded model shows it is equivalent to ½?

A.

B.

C.

D.

EXAMPLE 2: Which shaded model shows it is equivalent to ½?

A.

B.

C.

D.

EXAMPLE 3: Which shaded model shows it is equivalent to ½?

A.

B.

C.

D.

EXAMPLE 4: Which shaded model shows it is equivalent to ⅔?

A.

B.

C.

D.

EXAMPLE 5: Which shaded model shows it is equivalent to ¼?

A.

B.

C.

D.

EXAMPLE 6: Which shaded model show it is equivalent to ¾?

A.

B.

C.

D.

1. Which two models are shaded to show equivalent fractions?
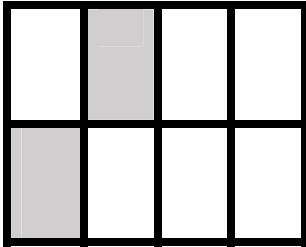
Models _____ and _____

Model 1
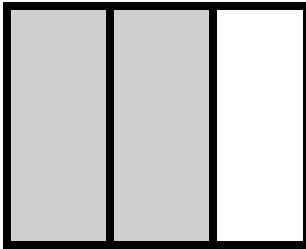
Model 2

Model 3

Model 4

2. Which two models are shaded to show equivalent fractions?

Models _____ and _____
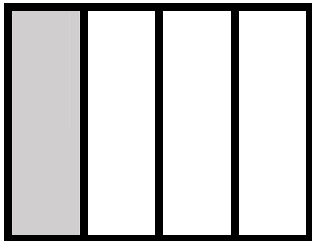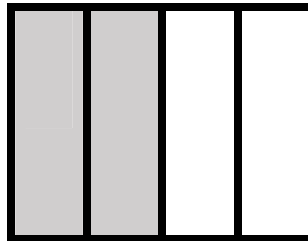
Model 1
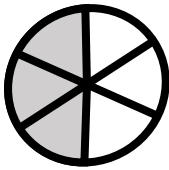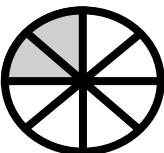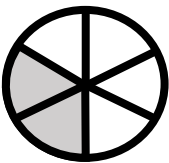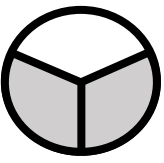
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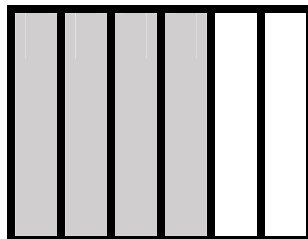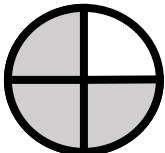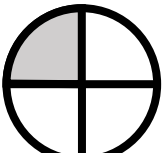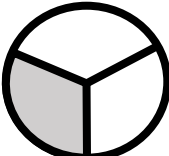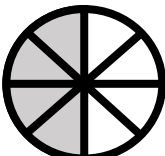
Model 3

Model 4

Student Notes #2

EXAMPLE 1: Which shaded model shows it is equivalent to ½?

A.

C.

B.

D.
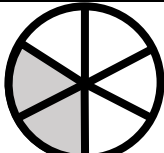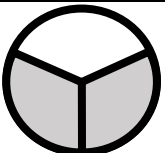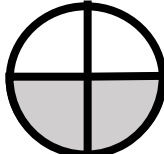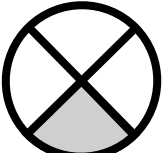
EXAMPLE 2: Which shaded model shows it is equivalent to ½?

A.

C.

B.

D.

EXAMPLE 3: Which shaded model shows it is equivalent to ½?

A.

C.

B.

D.

Student Notes #3

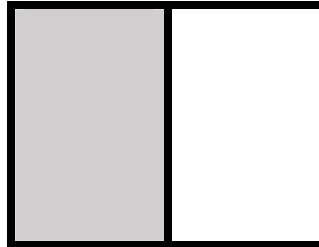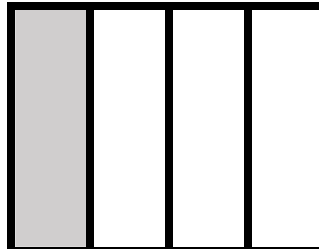**EXAMPLE 1: Point *P* on the number line represents two equivalent fractions.**
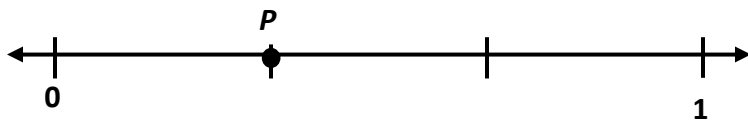
Which two equivalent fractions represent point *P*?

A. $\dfrac{1}{4}$ and $\dfrac{1}{6}$ C. $\dfrac{1}{3}$ and $\dfrac{2}{3}$

B. $\dfrac{1}{3}$ and $\dfrac{2}{6}$ D. $\dfrac{1}{3}$ and $\dfrac{1}{4}$

EXAMPLE 2: Point *R* on the number line represents two equivalent fractions.
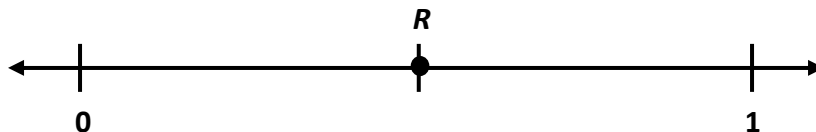
Which two equivalent fractions represent point *R*?

A. $\dfrac{1}{2}$ and $\dfrac{1}{4}$ C. $\dfrac{1}{2}$ and $\dfrac{2}{4}$

B. $\dfrac{1}{3}$ and $\dfrac{2}{6}$ D. $\dfrac{1}{2}$ and $\dfrac{1}{3}$

EXAMPLE 3: Point *S* on the number line represents two equivalent fractions.
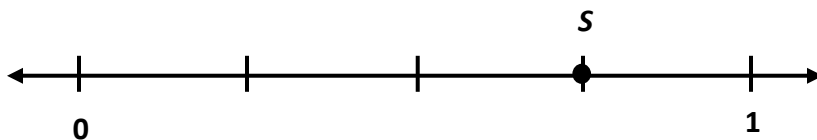
Which two equivalent fractions represent point *S*?

A. $\dfrac{4}{5}$ and $\dfrac{4}{8}$ C. $\dfrac{4}{4}$ and $\dfrac{6}{6}$

B. $\dfrac{3}{4}$ and $\dfrac{3}{6}$ D. $\dfrac{3}{4}$ and $\dfrac{6}{8}$

Student Notes #2

EXAMPLE 1: Find the measurement of ∠FEH.
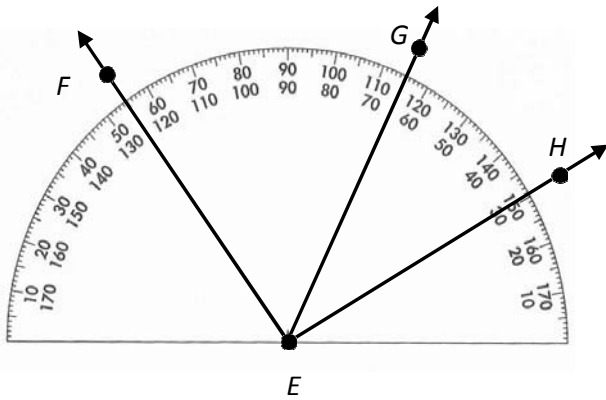
EXAMPLE 4: Find the measurement of ∠ADB.
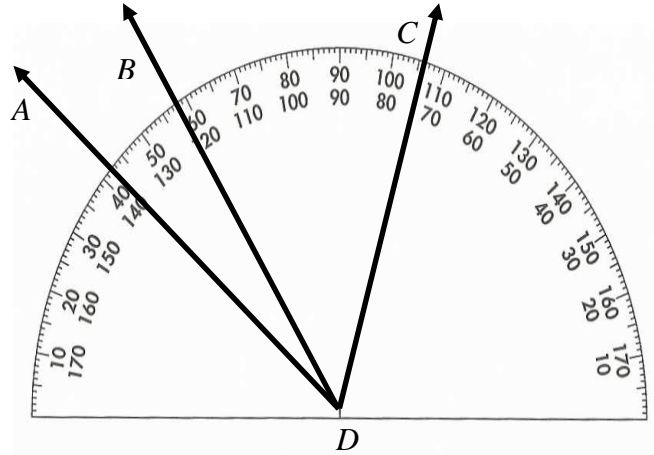
EXAMPLE 2: Find the measurement of ∠GEH.
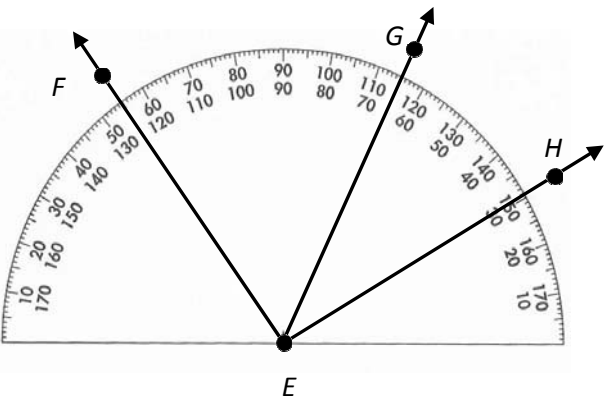
EXAMPLE 5: Find the measurement of ∠BDC
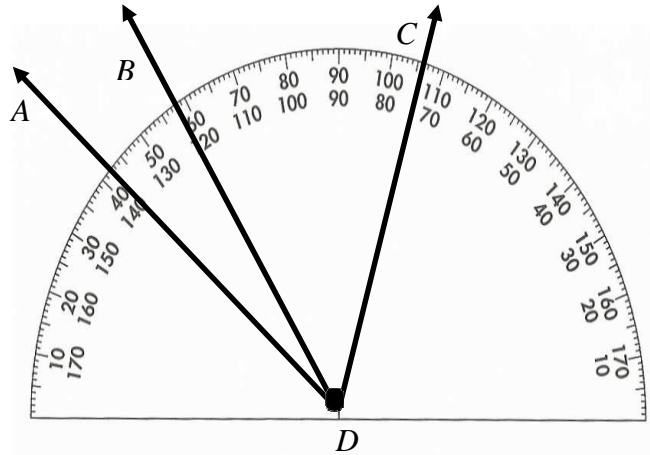
EXAMPLE 3: Find the measurement of ∠FEG
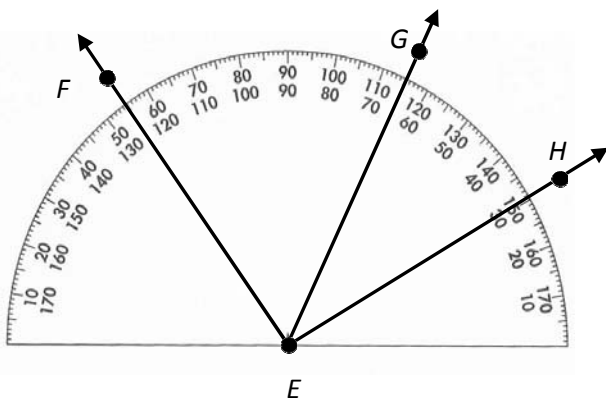
EXAMPLE 6: Find the measurement of ∠ADC
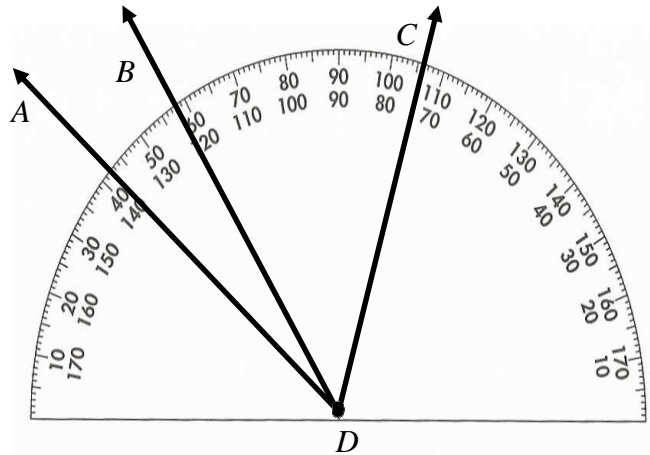
Student Notes #4

EXAMPLE 1: **Adjacent Angles-** _____ _____ *Figure: angle with rays to A, D, C from vertex B; angle ABD = 37°, angle DBC = 42°*	**EXAMPLE 4:** ∠HIK and ∠ KIJ are complementary angles because 20° + 70° = 90°. *Figure: ray to J at 70°, K at 20°, H, I* So, the measure of ∠HIJ is_____
EXAMPLE 2: ∠EFH and ∠ HFG are **adjacent angles**. The m ∠EFG is 100°. Find the measure of ∠ HFG. *Figure: rays H and G from F, angle EFH = 90°, points E, F* 	**EXAMPLE 5:** **Supplementary Angles-** _____ _____ ∠ABD and ∠DBC are **supplementary angles** because 130° + 50° = 180° *Figure: line A-B-C with ray BD; angle ABD = 130°, angle DBC = 50°* So, the measure of ∠ ABC is _____
EXAMPLE 3: Complementary Angles- _____ _____ ∠QRT and ∠ TRS are complementary angles. Find the measure of ∠ QRS. *Figure: rays Q, T, S from R; angle QRT = 60°, angle TRS = 30°* Equation: _____	**EXAMPLE 6:** ∠EFH and ∠HFG are supplementary angles because 160° + 20° = 180° *Figure: line E-F-G with ray FH; angle EFH = 160°, angle HFG = 20°* So, the measure of ∠EFG is _____.
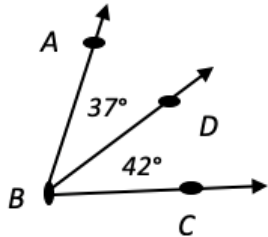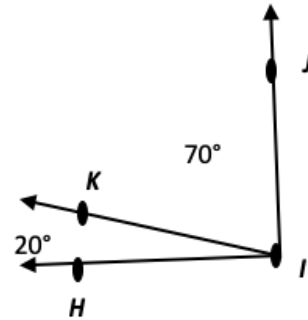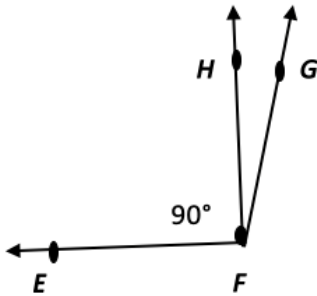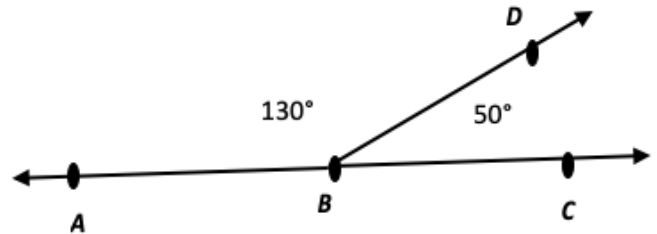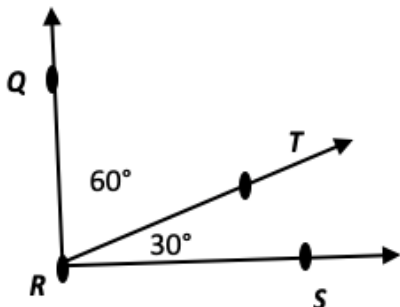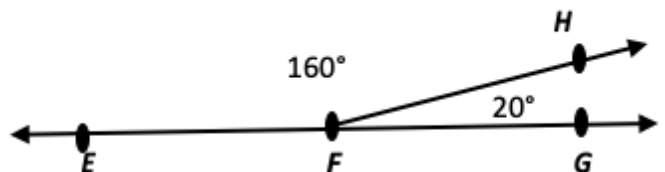
Student Notes #1

EXAMPLE 1: Vicky, Lalo, and Marcela collected 12 toys. They want to share the toys equally. How many toys will each of the children get?	EXAMPLE 4: Mr. Lopez has 2472 pencils. He gives each student equal amount of pencils. If he has 8 students, how many pencils will each student get from Mr. Lopez?
EXAMPLE 2: Terry collected 622 coins in 5 months. How many coins did she collect each month?	EXAMPLE 5: Tony made 1359 cupcakes for the school bake sale. If he puts 9 in a box, how many boxes will he use?
EXAMPLE 3: A salesperson sold 4 bikes. He received a total of $392. If each bike cost the same amount, how much did each bike cost?	EXAMPLE 6: Sonia collected 116 empty cans to recycle and Ian collected 64 cans. They packed an equal number of cans into four boxes to take to the recycling center. How many cans were in each box?

Student Notes #2

EXAMPLE 1: A builder designed a concert stadium. There are 90 seats in each section. Each row has 6 seats. How many rows of seats are in each section?	**EXAMPLE 4: Lucy bought 1035 cupcakes for a school bake sale. Each package has 9 cupcakes. How many packages did she buy?**
EXAMPLE 2: At a school, 104 students signed up to play soccer. If there are 8 teams, how many players are on each team?	**EXAMPLE 5: Roman is packing his toys to move to a new house. There are 110 toys to pack equally into 4 boxes. How many toys will remain WITHOUT being packed in a box?**
EXAMPLE 3: Luna bought 80 boxes of erasers for her students. She wants to share the boxes equally among her 5 classes. How many boxes of erasers does each class receive?	**EXAMPLE 6: There are 182 students in a robotics class. If the students are placed in equal groups of 7, how many groups will there be?**

Student Notes #4

Area Model

Partial Quotients

Strip Diagram

Distributive Property

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4th Six Weeks

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Page 11
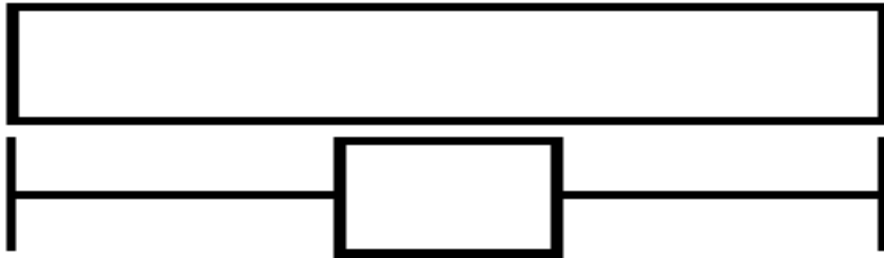
Student Notes #1

EXAMPLE 1: Mrs. Campos purchased 300 new library books to be shared equally among the 4 fourth grade teachers. How many library books is each teacher going to receive?	**EXAMPLE 4: Vickie collected 1,344 pearl beads to make 8 necklaces. She wants to use the same number of pearl beads on each necklace. How many beads will she use on each necklace?**
EXAMPLE 2: Luis has 180 toy cars. He's going to share them equally with his 6 cousins. How many toy cars is each cousin going to receive?	**EXAMPLE 5: Oscar earned $2,328 working for 4 weeks. He earned the same amount of money each week. How much money did he earn each week?**
EXAMPLE 3: Gina bought 1,359 balloons to make 9 arrangements. How many balloons will be in each arrangement?	**EXAMPLE 6: Angie walked 2,472 steps in 8 hours. She walked the same number of steps each hour. How many steps did she walk in one hour?**

A.

$$336 \div 7$$

7 | | |

Add the widths: ___ + ___ = ___

E.

$$2,985 \div 5$$

5 | | | |

Add the widths: ___ + ___ + ___ = ___

B.

$$492 \div 6$$

6 | | |

Add the widths: ___ + ___ = ___

F.

$$2,912 \div 8$$

8 | | | |

Add the widths: ___ + ___ + ___ = ___

C.

$$567 \div 9$$

9 | | |

Add the widths: ___ + ___ = ___

G.

$$1,683 \div 3$$

3 | | | |

Add the widths: ___ + ___ + ___ = ___

D.

$$1,540 \div 4$$

4 | | | |

Add the widths: ___ + ___ + ___ = ___

H.

$$1253 \div 7$$

7 | | | |

Add the widths: ___ + ___ + ___ = ___

Student Notes #4

EXAMPLE 1: There are 288 ice cream cones. If each package has 6 ice cream cones, how many packages of ice cream are there?	**EXAMPLE 4: The principal ordered 1,652 prizes to be shared equally among 7 grade levels. Each grade level will receive the same number of prizes. How many prizes will each grade level get?**
EXAMPLE 2: Mrs. Torres paid $864 for 6 new walkie-talkies for her school. She paid the same amount for each walkie-talkie. How much did she pay for each walkie talkie?	**EXAMPLE 5: Gina has $1,968 dollars budget for her 8 days Royal Caribbean Cruise. If she's planning the spend the same amount of money each day, how much money will she have to spend each day?**
EXAMPLE 3: A factory can make 756 handbags in 9 days. If they make the same number of handbags each day, how many handbags can they make in a day?	**EXAMPLE 6: Patricia ran 960 miles in 5 months. If she ran the same number of miles each month, how many miles did she run each day?**

Name: _____ Date: _____

Create an area model or use the distributive property to solve or justify your answer.

1. $2134 \times 3 = $ _____

2. $3248 \times 9 = $ _____

3. $5341 \times 4 = $ _____

4. $1245 \times 4 = $ _____

Name: _____   Date: _____

Create an area model or use the distributive property to solve or justify your answer.

1. $121 \times 24 =$ _____   **2.** $171 \times 26 =$ _____

3. $313 \times 29 =$ _____   **4.** $115 \times 26 =$ _____

5. $215 \times 22 =$ _____   **6.** $618 \times 29 =$ _____

STAAR GRADE 5 MATHEMATICS REFERENCE MATERIALS

STAAR
State of Texas
Assessments of
Academic Readiness
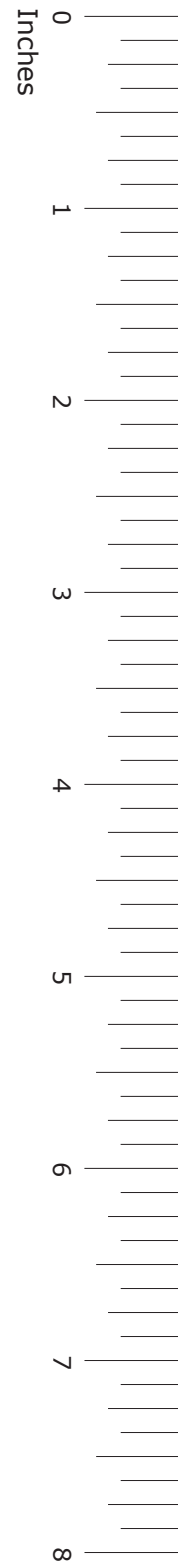
PERIMETER

Square	$P = 4s$
Rectangle	$P = 2l + 2w$

AREA

Square			$A = s \times s$
Rectangle	$A = l \times w$	or	$A = bh$

VOLUME

Cube			$V = s \times s \times s$
Rectangular prism	$V = l \times w \times h$	or	$V = Bh$

Inches
0
1
2
3
4
5
6
7
8

STAAR GRADE 5 MATHEMATICS REFERENCE MATERIALS

LENGTH

Customary	Metric
1 mile (mi) = 1,760 yards (yd)	1 kilometer (km) = 1,000 meters (m)
1 yard (yd) = 3 feet (ft)	1 meter (m) = 100 centimeters (cm)
1 foot (ft) = 12 inches (in.)	1 centimeter (cm) = 10 millimeters (mm)

VOLUME AND CAPACITY

Customary	Metric
1 gallon (gal) = 4 quarts (qt)	1 liter (L) = 1,000 milliliters (mL)
1 quart (qt) = 2 pints (pt)	
1 pint (pt) = 2 cups (c)	
1 cup (c) = 8 fluid ounces (fl oz)	

WEIGHT AND MASS

Customary	Metric
1 ton (T) = 2,000 pounds (lb)	1 kilogram (kg) = 1,000 grams (g)
1 pound (lb) = 16 ounces (oz)	1 gram (g) = 1,000 milligrams (mg)

Centimeters
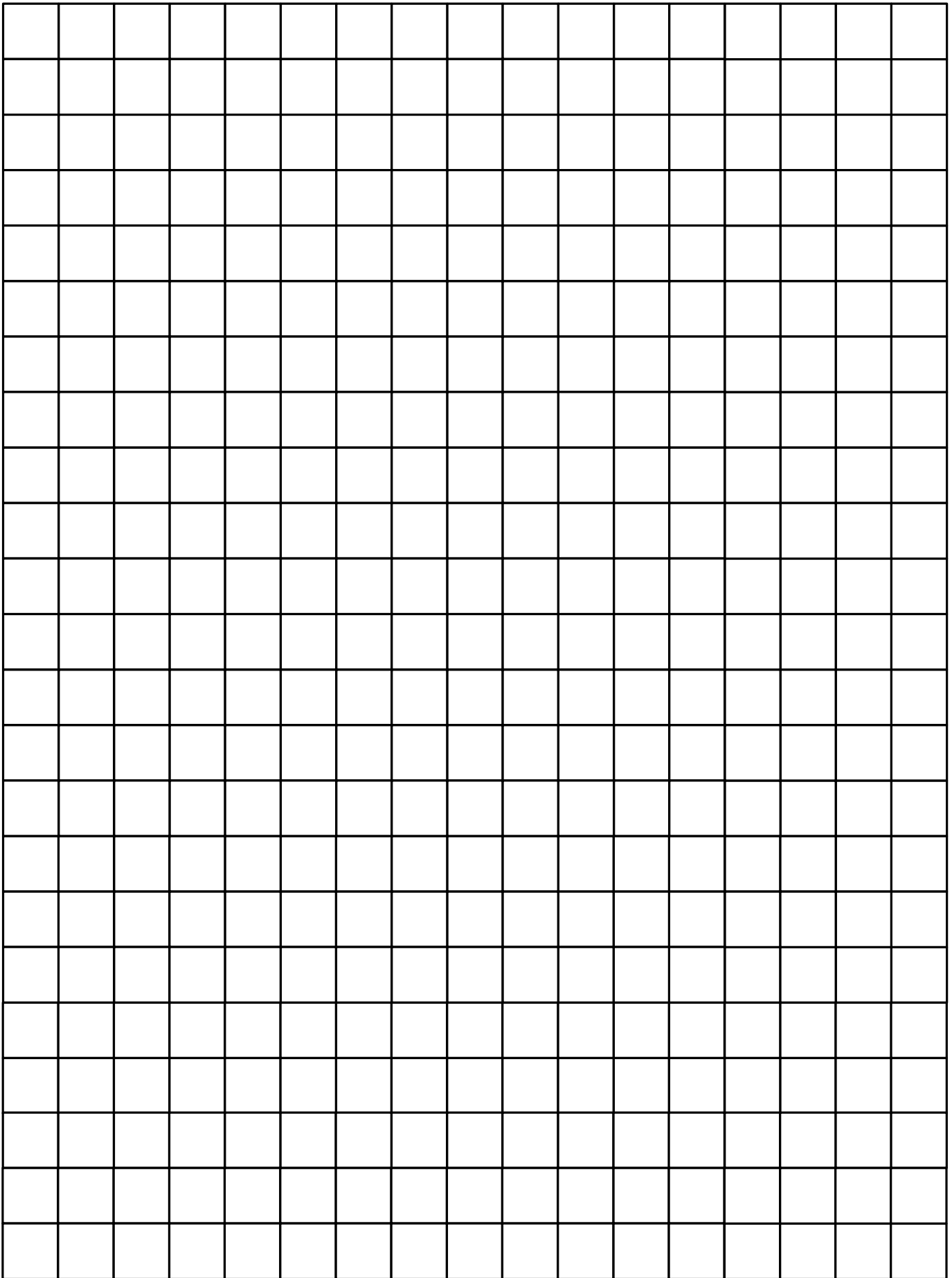
Centimeter Grid

Centimeter Grid
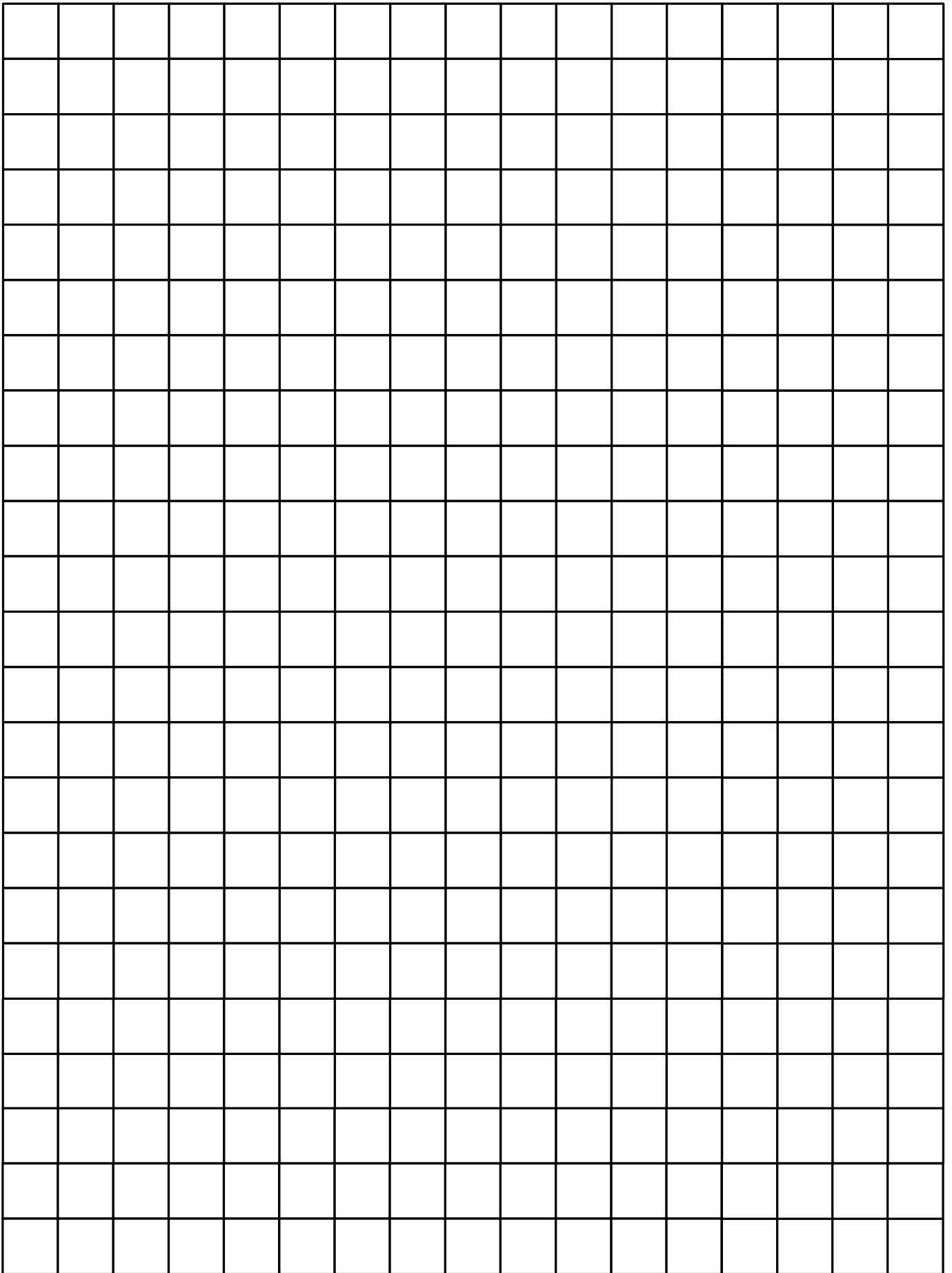
Student Notes #1

EXAMPLE 1: Add ⅓ + ¼ using area model.	**EXAMPLE 4: Add ½ + 2/4 using area model.**
EXAMPLE 2: Add ⅔ + ¾ using area model.	**EXAMPLE 5: Add ⅖ + ¼ using area model.**
EXAMPLE 3: Add ⅗ + ¾ using area model.	**EXAMPLE 6: Add ½ + ⅖ using area model.**

Student Notes #2

Directions: Use the least common denominator to add these fractions.

EXAMPLE 1: Add $\dfrac{1}{4}+\dfrac{1}{5}$	**EXAMPLE 4: Add** $\dfrac{2}{4}+\dfrac{5}{7}$
EXAMPLE 2: Add $\dfrac{1}{2}+\dfrac{4}{7}$	**EXAMPLE 5: Add** $\dfrac{2}{5}+\dfrac{5}{9}$
EXAMPLE 3: Add $\dfrac{2}{3}+\dfrac{6}{8}$	**EXAMPLE 6: Add** $\dfrac{2}{6}+\dfrac{5}{8}$

Student Notes #3

EXAMPLE 1: Subtract ⅝ – ¼ using area model.	**EXAMPLE 4:** Subtract ⅘ – ⅓ using area model.
EXAMPLE 2: Subtract ¾ – ⅛ using area model.	**EXAMPLE 5:** Subtract ¾ – ⅔ using area model.
EXAMPLE 3: Subtract ⅚ – ⅔ using area model.	**EXAMPLE 6:** Subtract $\dfrac{2}{4} - \dfrac{2}{6}$ using area model.

Centimeter Grid
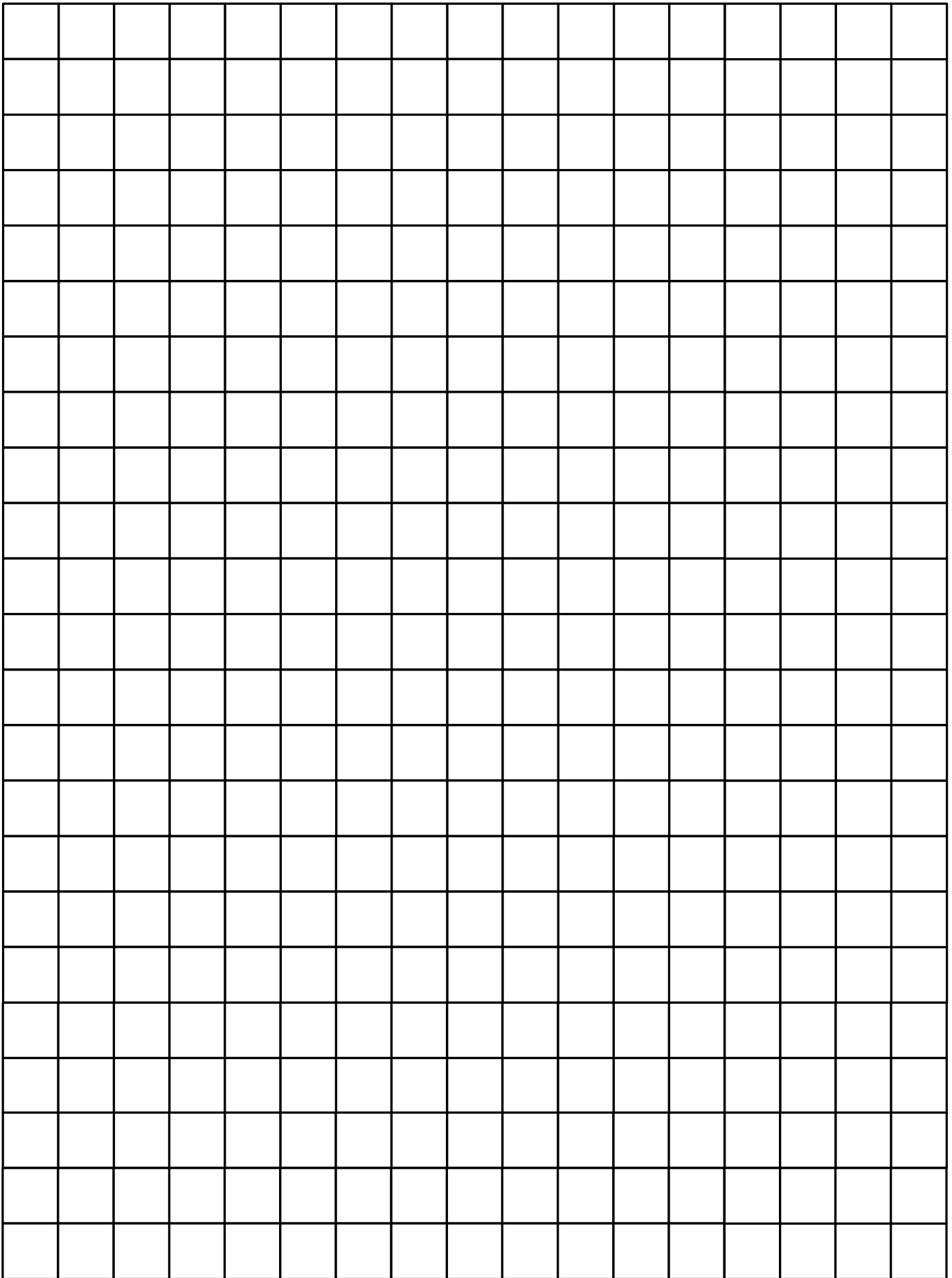
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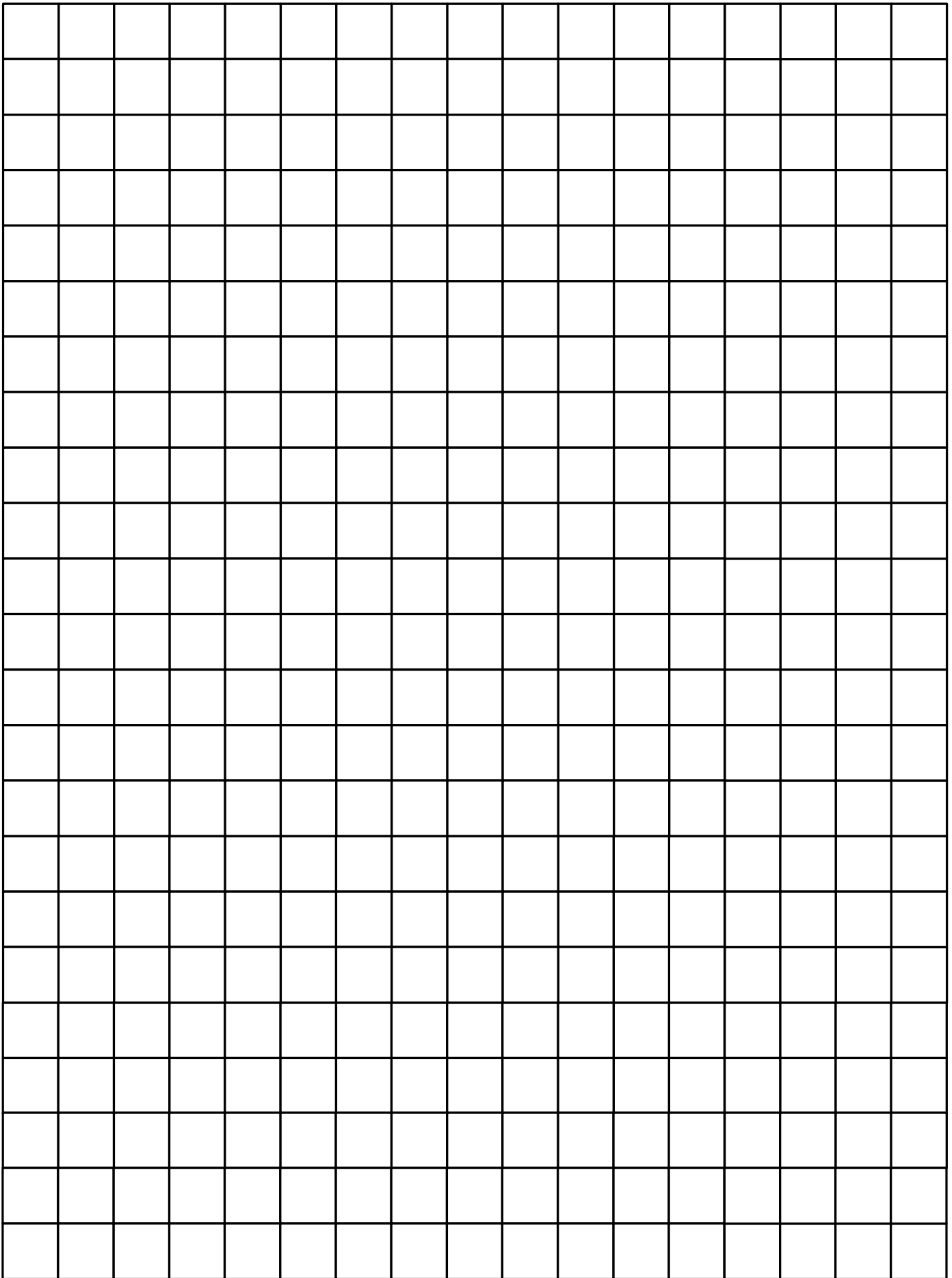
Student Notes #4

Directions: Use the least common denominator to subtract these fractions.

EXAMPLE 1: Subtract $\dfrac{6}{8} - \dfrac{1}{2}$

EXAMPLE 4: Subtract $\dfrac{5}{7} - \dfrac{2}{3}$

EXAMPLE 2: Subtract $\dfrac{6}{9} - \dfrac{1}{3}$

EXAMPLE 5: Subtract $\dfrac{3}{4} - \dfrac{5}{9}$

EXAMPLE 3: Subtract $\dfrac{6}{10} - \dfrac{3}{5}$

EXAMPLE 6: Subtract $\dfrac{4}{5} - \dfrac{6}{10}$

Student Notes #1

EXAMPLE 1: If you had a rectangular prism that had a length of 4 units, a width of 3 units, and a height of 2 units, how many unit cubes would you need to find the volume of the rectangular prism?

EXAMPLE 4: If you had a rectangular prism that had a length of 5 units, a width of 2 units, and a height of 3 units, how many unit cubes would you need to find the volume of the rectangular prism?

EXAMPLE 2: If you had a rectangular prism that had a length of 3 units, a width of 2 units, and a height of 4 units, how many unit cubes would you need to find the volume of the rectangular prism?

EXAMPLE 5: If you had a rectangular prism that had a length of 2 units, a width of 4 units, and a height of 1 unit, how many unit cubes would you need to find the volume of the rectangular prism?

EXAMPLE 3: If you had a rectangular prism that had a length of 6 units, a width of 3 units, and a height of 2 units, how many unit cubes would you need to find the volume of the rectangular prism?

EXAMPLE 6: If you had a rectangular prism that had a length of 1 unit, a width of 4 units, and a height of 3 units, how many unit cubes would you need to find the volume of the rectangular prism?

Student Notes #3

|	
EXAMPLE 1: Marissa is filling a cube-shaped box with small cubes. The length is 10 cm, the width 10 cm, and height is 10 cm. What is the volume of the box?	**EXAMPLE 4: Eliseo is filling a rectangular box with tissue boxes. The length is 7 ft, the width 6 ft, and height is 10 ft. What is the volume of the prism?**
EXAMPLE 2: Lorenzo is filling a cube-shaped box with small cubes. The length of the box is 7 cm, the width is 7 cm, and the height is 7 cm. What is the volume of the box?	**EXAMPLE 5: Mirna is filling a rectangular container. The length is 14 cm, the width 3 cm, and height is 5 cm. What is the volume of the container?**
EXAMPLE 3: Carmela is filling a cube-shaped box with math cubes. The length is 4 cm, the width 4 cm, and height is 4 cm. What is the volume of the box?	**EXAMPLE 6: Jose is filling a rectangular container. The length is 7 cm, the width 4 cm, and height is 4 cm. What is the volume of the container?**

Student Notes #4

EXAMPLE 1: Rodrigo wants to find the volume of a coloring box for his sister. Use the ruler provided to find the volume of the coloring box in cubic centimeters.
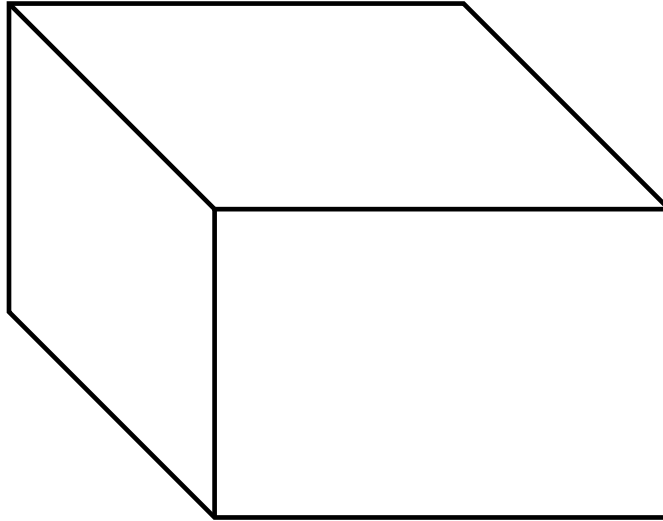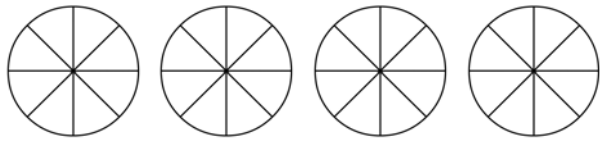

EXAMPLE 2: Diego wants to find the volume of a gift box for his mom to wrap it. Use the ruler provided to find the volume of the gift box in cubic centimeters.
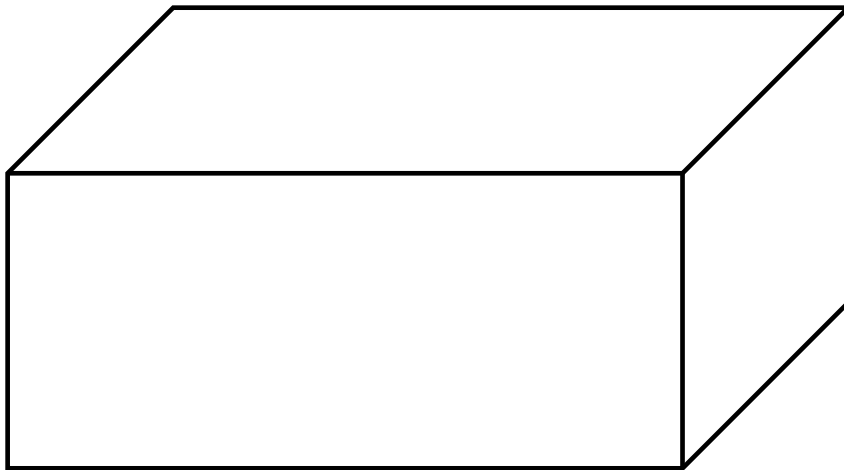
Student Notes #1

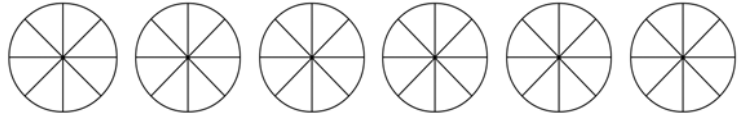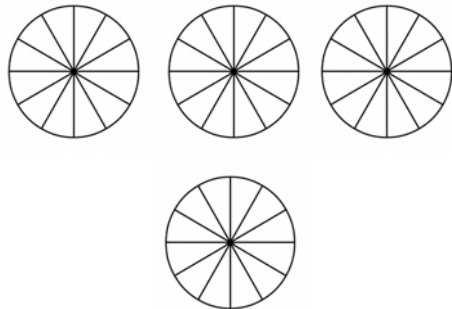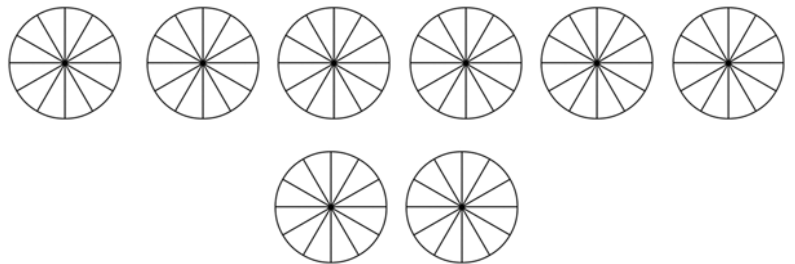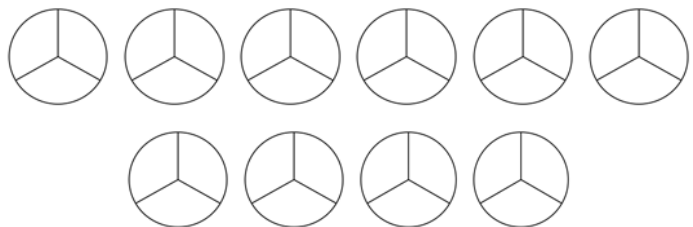|	
EXAMPLE 1: What is $\frac{4}{8}$ x 4? **Repeated addition -** How many total pieces are shaded? Answer:	**EXAMPLE 4: What is $\frac{3}{8}$ x 6?** **Repeated addition -** How many total pieces are shaded? Answer:
EXAMPLE 2: What is $\frac{4}{12}$ x 4? **Repeated addition -** How many total pieces are shaded? Answer:	**EXAMPLE 5: What is $\frac{7}{12}$ x 8?** **Repeated addition -** How many total pieces are shaded? Answer:
EXAMPLE 3: What is $\frac{2}{3}$ x 5? **Repeated addition –** How many total pieces are shaded? Answer:	**EXAMPLE 6: What is $\frac{1}{3}$ x 10?** **Repeated addition -** How many total pieces are shaded? Answer:

Student Notes #2

EXAMPLE 1: Multiply $\frac{5}{8}$ by 3 using fraction strips
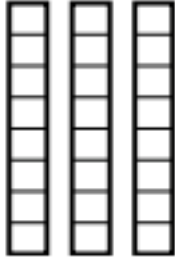
Total blocks shaded? _____ out of _____

Write answer in fraction form :

EXAMPLE 4: Multiply $\frac{3}{6}$ by 7 using fraction strips

Total blocks shaded? _____ out of _____

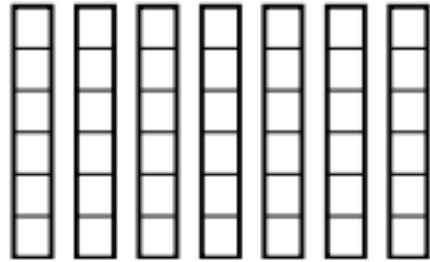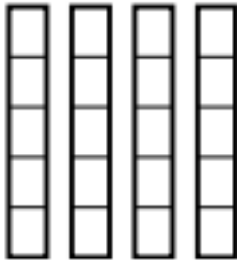Write answer in fraction form :

EXAMPLE 2: Multiply $\frac{1}{5}$ by 4 using fraction strips

Total blocks shaded? _____ out of _____

Write answer in fraction form :

EXAMPLE 5: Multiply $\frac{5}{6}$ by 6 using fraction strips

Total blocks shaded? _____ out of _____

Write answer in fraction form :

EXAMPLE 3: Multiply $\frac{8}{10}$ by 9 using fraction strips

Total blocks shaded? _____ out of _____

Write answer in fraction form :

EXAMPLE 6: Multiply $\frac{8}{10}$ by 2 using fraction strips

Total blocks shaded? _____ out of _____
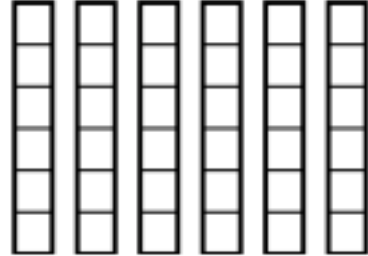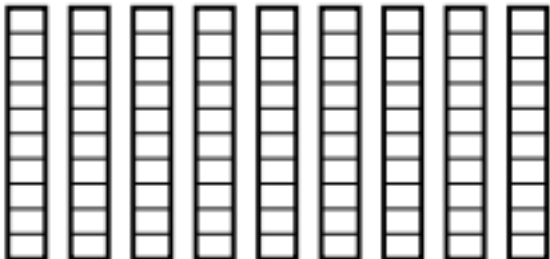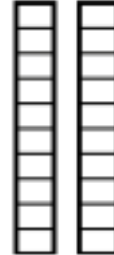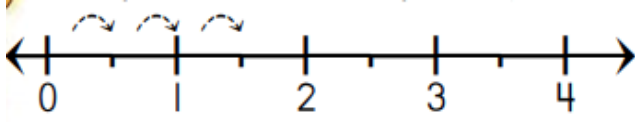
Write answer in fraction form :

Student Notes #3

EXAMPLE 1: Write the multiplication sentence that matches this model.

How many times do we jump? _____
What fraction is being repeated? _____

Therefore, _____ x _____ = _____

EXAMPLE 4: Write the multiplication sentence that matches this model.

How many times do we jump? _____
What fraction is being repeated? _____

Therefore, _____ x _____ = _____

EXAMPLE 2: Write the multiplication sentence that matches this model.

How many times do we jump? _____
What fraction is being repeated? _____
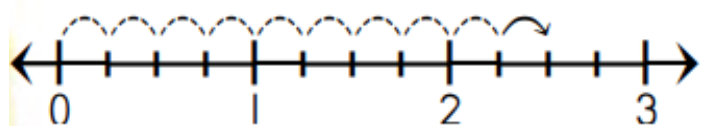
Therefore, _____ x _____ = _____

EXAMPLE 5: Write the multiplication sentence that matches this model.

How many times do we jump? _____
What fraction is being repeated? _____

Therefore, _____ x _____ = _____

EXAMPLE 3: Write the multiplication sentence that matches this model.

How many times do we jump? _____
What fraction is being repeated? _____

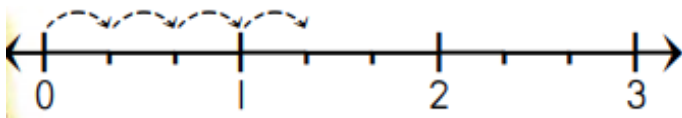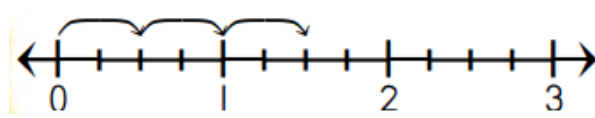Therefore, _____ x _____ = _____

EXAMPLE 6: Write the multiplication sentence that matches this model.

How many times do we jump? _____
What fraction is being repeated? _____

Therefore, _____ x _____ = _____
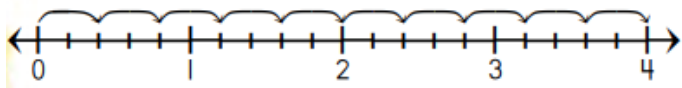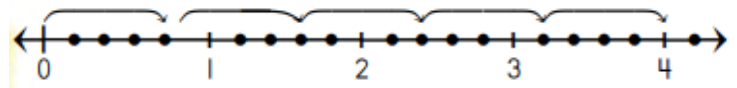
Name: _____ Date: _____

Create an area model or use the distributive property to solve or justify your answer.

1. $224 \div 3 =$ _____   **2.** $725 \div 5 =$ _____

3. $968 \div 8 =$ _____   **4.** $86 \div 2 =$ _____

5. $189 \div 9=$ _____   **6.** $624 \div 4 =$ _____

5th Grade – 4th Six Weeks

Basic Facts

1. 3 feet = _____ inches

2. 24 feet = _____ yards

3. 24 inches = _____ feet

4. 7 feet = _____ inches

5. 2 miles = _____ yards

6. 60 feet = _____ yards

Name: _____   Date: _____

Create an area model or use the distributive property to solve or justify your answer.

1. $380 \div 9 =$ _____   **2.** $136 \div 2 =$ _____

3. $364 \div 4 =$ _____   **4.** $129 \div 3 =$ _____

5. $298 \div 2 =$ _____   **6.** $155 \div 5 =$ _____

5th Grade – 4th Six Weeks

Basic Facts

1. 12 quarts = _____ gallons

2. 5 cups = _____ fl oz

3. 5 quarts = _____ pints

4. 16 quarts = _____ gallons

5. 20 cups = _____ pints

6. 24 fl oz = _____ cups

5th Grade – 4th Six Weeks
Basic Facts

1. 3 T = _____ lbs

2. 10,000 lbs = _____ T

3. 5 lbs = _____ oz

4. 6 lbs = _____ oz

5. 48 oz = _____ lbs

6. 24,000 lbs = _____ T