Unit: Linear Equations Round Table — A

Name	
Date	Pd

# WRITING AND SOLVING EQUATIONS: ROUND TABLE

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

<b>A</b>	D.	
Δ:	K:	( :
<b>7.</b>	ν.	<b>C</b> •

#### **SITUATION:**

A skier can choose between buying a season pass or paying to ski daily. A daily pass costs \$47.50 per day and includes ski rentals. A season ski pass costs a one-time fee of \$390 and a daily fee of \$17.50 for ski rentals. How many days would the skier have to go skiing in order for both options to cost the same amount?

STEP I:
Write an equation that can be used to represent the situation above:
Equation:
Person from Step 2, check and initial 🛨 🔃
STEP 2:
First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:
x =
Person from Step 3, check and initial 🛨
STEP 3:
First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:
Person from Step 1, check and initial $ ightarrow$

Unit: Linear Equations Round Table — A

# **WRITING AND SOLVING EQUATIONS: ROUND TABLE**

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

	В:	C:
ſ	SITU	ATION:
		ne as the sum of half the number is the number?
		TEN I
		<b>TEP I:</b> ed to represent the situation above:
	Eq	uation:
		Person from Step 2, check and initial $\rightarrow$
Fir	st, check the work in Step #1 and initial	<b>TEP 2:</b> in the box. Next, solve the equation, and shown work:
		X =
		Person from Step 3, check and initial 🛨 🔃
	First, check the work in Step #2 and in	<b>IEP 3:</b> Initial in the box. Next, prove the solution by the equation. Show your work:
		Person from Step 1, check and initial →

Unit: Linear Equations Round Table – B

Name		
Date	Pd	

# **WRITING AND SOLVING EQUATIONS: ROUND TABLE**

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

A:	B:	(:	
	_	 _	

#### SITUATION:

On Thursday morning a bakery owner prepared by baking several pies and decorating cupcakes. She spent 90 minutes baking the pies and an average of 1.2 minutes decorating each cupcake. On Friday, she spent 58 minutes baking pies, and decorated the same number of cupcakes at an average of 1.7 minutes per cupcake. If she spent the same total amount of time preparing on Thursday as she did on Friday, how many cupcakes did she decorate each day?

STEP I:
Write an equation that can be used to represent the situation above:
Equation:
Person from Step 2, check and initial →
STEP 2:
First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:
x =
^
Person from Step 3, check and initial →
STEP 3:
First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:
Person from Step 1, check and initial 🗕 🔃

Unit: Linear Equations Round Table — B

# **WRITING AND SOLVING EQUATIONS: ROUND TABLE**

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

	B:		(:
			1
hour to rent a \$40 plus \$95.7	ral company charges sailboat. A second r 5 per hour to rent a a sailboat in order fo	ental company cho sailboat. How man	of \$78.75 plus \$80.25 per arges customers a fee of y hours would a customer to charge the same total
		STEP I:	
Write an	equation that can be		nt the situation above:
		Equation:	
		Person from S	Step 2, check and initial $ ightarrow$
irst, check the wo		<b>STEP 2:</b> itial in the box. Nex your work:	ct, solve the equation, and sho
			x =
		Person from S	Step 3, check and initial $ ightarrow$
•	e work in Step #2 an ging it into both sides		Next, prove the solution by Show your work:
		Danson from S	Step 1, check and initial $ ightarrow$ $lacksquare$

Unit: Linear Equations	
Round Table - C	

Name	
Date	Pd

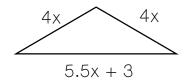
- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

A:	:	

#### SITUATION:

The two figures below have the same perimeter. What is the value of x?

$$8.5x - 2$$
 $3.25x + 1$ 



## STEP I:

Write an equation that can be used to represent the situation above:

Equation: \_\_\_\_\_

Person from Step 2, check and initial →

## STEP 2:

First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:

x = \_\_\_\_

Person from Step 3, check and initial →

## STEP 3:

First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:

Person from Step 1, check and initial ->

Unit: Linear Equations Round Table — C

# **WRITING AND SOLVING EQUATIONS: ROUND TABLE**

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

	B:	C:	
	SIT	UATION:	
		supply room and uses $5\frac{3}{4}$ yards on op. Jamie has 95 yards of fabric	
the girls b	uys more fabric, how man	oric per day making products. If r y days will it take until they have t of fabric in their supply rooms?	
		STEP I:	
Write		used to represent the situation abo	ove:
	E	quation:	
		Person from Step 2, check and	initial →
	уо	ur work:	
			X =
		Person from Step 3, check and	initial →
-	k the work in Step #2 and i	STEP 3: initial in the box. Next, prove the softhe equation. Show your work:	solution by
		Person from Step 1, check and	initial →

Unit: Linear Equations Round Table - A

Name	Answer Key	
Date		Pd

# WRITING AND SOLVING EQUATIONS: ROUND TABLE

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

<b>A</b> :	D.	
Δ.		( •
Λ•	D.	<b>C.</b>

#### **SITUATION:**

A skier can choose between buying a season pass or paying to ski daily. A daily pass costs \$47.50 per day and includes ski rentals. A season ski pass costs a one-time fee of \$390 and a daily fee of \$17.50 for ski rentals. How many days would the skier have to go skiing in order for both options to cost the same amount?

#### STEP I:

Write an equation that can be used to represent the situation above:

Equation: 47.50x = 390 + 17.50x

Person from Step 2, check and initial  $\rightarrow$ 

## STEP 2:

First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:

x = 13

Person from Step 3, check and initial  $\rightarrow$ 

## STEP 3:

First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:

47.50x = 390 + 17.50x 47.50(13) = 390 + 17.50(13)617.50 = 617.50

Person from Step 1, check and initial ->

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

	_	_	_	
Λ.	•	R.	г.	•
Л٠	D D	D٠	٠.	

#### **SITUATION:**

19 less than a number is the same as the sum of half the number and six. What is the number?

#### STEP I:

Write an equation that can be used to represent the situation above:

 $x - 19 = \frac{1}{2}x + 6$  Equation:

Person from Step 2, check and initial  $\rightarrow$ 

## STEP 2:

First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:

$$x = 50$$

Person from Step 3, check and initial  $\rightarrow$ 

## STEP 3:

First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:

$$x - 19 = \frac{1}{2}x + 6$$

$$50 - 19 = \frac{1}{2}(50) + 6$$

$$31 = 31$$

Person from Step 1, check and initial →

Unit: Linear Equations
Round Table — B

Name	Answer Key	
Date		Pd

## **WRITING AND SOLVING EQUATIONS: ROUND TABLE**

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

<b>A</b>		🟲
A:	5:	l <del>*</del>
,,,	•	<b>5</b> *

#### **SITUATION:**

On Thursday morning a bakery owner prepared by baking several pies and decorating cupcakes. She spent 90 minutes baking the pies and an average of 1.2 minutes decorating each cupcake. On Friday, she spent 58 minutes baking pies and decorated the same number of cupcakes at an average of 1.7 minutes per cupcake. If she spent the same total amount of time preparing on Thursday as she did on Friday, how many cupcakes did she decorate each day?

#### STEP I:

Write an equation that can be used to represent the situation above:

Equation: 
$$90 + 1.2x = 58 + 1.7x$$

Person from Step 2, check and initial  $\rightarrow$ 

## STEP 2:

First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:

$$x = 64$$

Person from Step 3, check and initial  $\rightarrow$ 

## STEP 3:

First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:

$$90 + 1.2x = 58 + 1.7x$$
  
 $90 + 1.2(64) = 58 + 1.7(64)$   
 $166.8 = 166.8$ 

Person from Step 1, check and initial  $\rightarrow$ 

Unit: Linear Equations Round Table — B

# **WRITING AND SOLVING EQUATIONS: ROUND TABLE**

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

A: C:				
<i>N</i> .	<b>A</b> :	<b>B</b> :	(:	

#### **SITUATION:**

A sailboat rental company charges customers a fee of \$78.75 plus \$80.25 per hour to rent a sailboat. A second rental company charges customers a fee of \$40 plus \$95.75 per hour to rent a sailboat. How many hours would a customer have to rent a sailboat in order for both companies to charge the same total amount?

#### STEP I:

Write an equation that can be used to represent the situation above:

Equation:  $_{-}$ 78.75 + 80.25x = 40 + 95.75x

Person from Step 2, check and initial  $\rightarrow$ 

## STEP 2:

First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:

$$x = 2.5$$

Person from Step 3, check and initial  $\rightarrow$ 

#### STEP 3:

First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:

$$78.75 + 80.25x = 40 + 95.75x$$
  
 $78.75 + 80.25(2.5) = 40 + 95.75(2.5)$   
 $279.38 = 279.38$ 

Person from Step 1, check and initial  $\rightarrow$ 

Unit: Linear Equations
Round Table - C

Name	Answer Key	
Date		Pd

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

<b>A</b>			
A:			
A.			

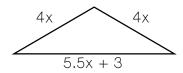
B:

(:

## SITUATION:

The two figures below have the same perimeter. What is the value of x?

$$8.5x - 2$$
 $3.25x + 1$ 



## STEP I:

Write an equation that can be used to represent the situation above:

Equation: 
$$23.5x - 2 = 13.5x + 3$$

Person from Step 2, check and initial 
$$\rightarrow$$

## STEP 2:

First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:

$$x = 0.5$$

## STEP 3:

First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:

$$23.5x - 2 = 13.5x + 3$$
  
 $23.5(0.5) - 2 = 13.5(0.5) + 3$   
 $9.75 = 9.75$ 

Person from Step 1, check and initial →

- 1. Determine who will be person A, B, and C. List this below.
  - 2. Solve ONLY one step, then pass your paper clockwise.
- 3. Be sure to check the prior step and initial in the box before working your own step!
  - 4. Continue until you get your original paper back.

A:	B:	C	:
	 -	 •	

## **SITUATION:**

Nikki has 186 yards of fabric in her supply room and uses  $5\frac{3}{4}$  yards of fabric per day making products for her shop. Jamie has 95 yards of fabric in her supply room and uses  $2\frac{1}{2}$  yards of fabric per day making products. If neither of the girls buys more fabric, how many days will it take until they have the same number of remaining yards of fabric in their supply rooms?

#### STEP I:

Write an equation that can be used to represent the situation above:

Equation: 
$$\frac{186 - 5\frac{3}{4}x = 95 - 2\frac{1}{2}x}{2}$$

Person from Step 2, check and initial  $\rightarrow$ 

## STEP 2:

First, check the work in Step #1 and initial in the box. Next, solve the equation, and show your work:

Person from Step 3, check and initial  $\rightarrow$ 

## STEP 3:

First, check the work in Step #2 and initial in the box. Next, prove the solution by plugging it into both sides of the equation. Show your work:

$$186 - 5\frac{3}{4}x = 95 - 2\frac{1}{2}x$$

$$186 - 5\frac{3}{4}(28) = 95 - 2\frac{1}{2}(28)$$

$$25 = 25$$

Person from Step 1, check and initial →