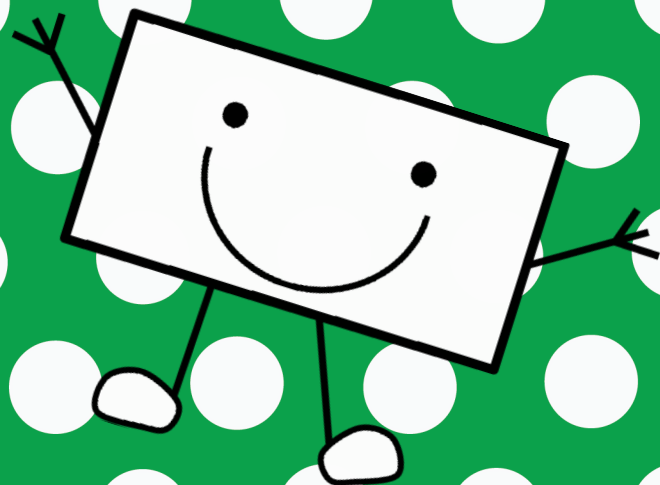
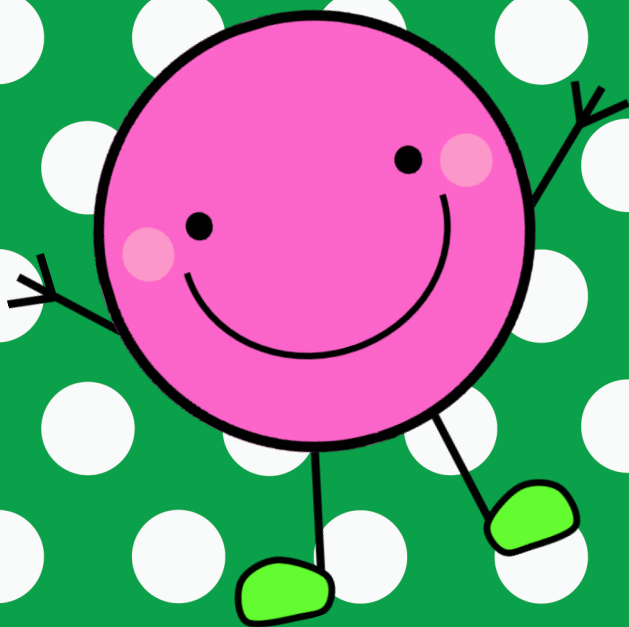


Area, Perimeter, and Circumference Math Journals




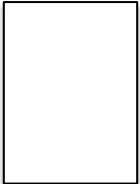

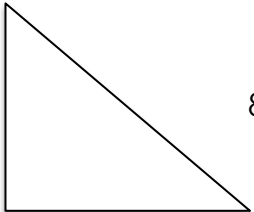
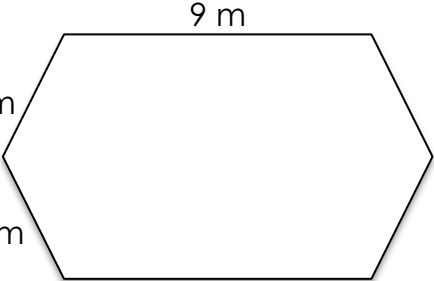
Math Journal #1

Tom is so excited to start measuring area, perimeter, or circumference but he keeps getting the three confused. Help him figure out whether to measure perimeter, area, or circumference for each item below.

Object	Measurement Tom Wants to Use	Measurement Tom Should Use
How much fence to buy to surround his backyard	area	
How much paper he needs to cover a bulletin board	circumference	
How long of a ribbon he needs to wrap around a cylinder flower vase	perimeter	
How much tile he needs to cover his kitchen floor	perimeter	
How much wood he will need to make a picture frame for his school portrait	circumference	
How far he will run if he goes one lap around a circular track	area	


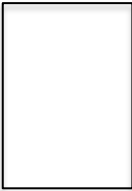
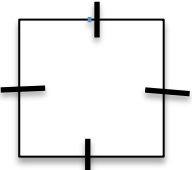
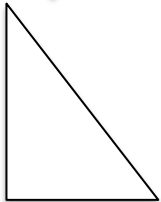
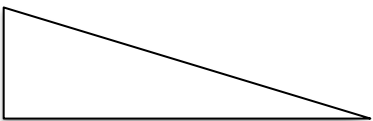
Math Journal #2

Tom is working on finding the perimeter of polygons, but he is getting confused. Correct his perimeter mistakes.

Shape	Perimeter
<p>5 ft</p>  <p>12 ft</p>	$5 \text{ ft} + 12 \text{ ft} = 17 \text{ ft}$
<p>7 cm</p>  <p>3 cm</p>	$7 \text{ cm} \times 3 \text{ cm} = 21 \text{ cm}$
<p>4 yd</p> 	$4 \text{ yd} + 4 \text{ yd} = 8 \text{ yd}$
<p>5 mm</p>  <p>8 mm</p> <p>4 mm</p>	$5 \text{ mm} + 4 \text{ mm} + 8 \text{ mm} = 20 \text{ mm}$
 <p>9 m</p> <p>4 m</p> <p>5 m</p>	$9 \text{ m} + 4 \text{ m} + 5 \text{ m} = 18 \text{ m}$
A square with one side measuring 5 ft	$5 \text{ ft} \times 5 \text{ ft} = 25 \text{ ft}$
A rectangle with one side measuring 3 m and another side measuring 6 m	$3 \text{ m} + 6 \text{ m} = 9 \text{ m}$

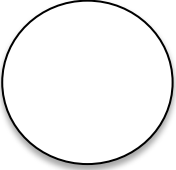
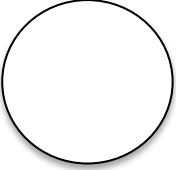
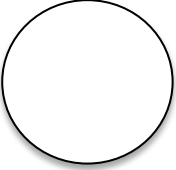
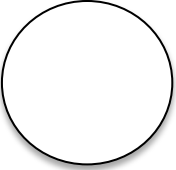
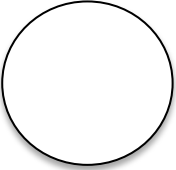
Math Journal #3

Tom is working on finding the area of polygons, but he is getting confused. He has gotten every question wrong. Correct his area mistakes. Make sure to include the correct unit.

Shape	Area
<p>6 ft  11 ft</p>	$6 \text{ ft} + 6 \text{ ft} + 11 \text{ ft} + 11 \text{ ft} = 36 \text{ ft}$
<p>9 cm  4 cm</p>	$9 \text{ cm} + 4 \text{ cm} = 13 \text{ cm}$
<p>4 yd </p>	$4 \text{ yd} \times 4 \text{ yd} = 16 \text{ yd}$
<p>7 mm  4 mm</p>	$7 \text{ mm} \times 4 \text{ mm} = 28 \text{ mm}$
<p>2 in  9 in</p>	$9 \text{ in} \times 2 \text{ in} = 18 \text{ in}$
A square with one side measuring 5 ft	$5 \text{ ft} + 5 \text{ ft} = 10 \text{ ft}$
A rectangle with one side measuring 3 m and another side measuring 6 m	$3 \text{ m} + 6 \text{ m} = 9 \text{ m}$

Math Journal #4

Tom is working on finding the circumference of circles, but he is getting confused. Help him to fill in the table for each circle. Also, label the radius and diameter on each circle

Circle	Radius	Diameter	Circumference
	5 in		
		7 ft	
	10 mm		
			18π yd
			314 cm

Math Journal #5

Tom needs help solving these word problems. Help him by showing your work step by step and drawing a diagram to support your strategy.

1. Sally is wrapping a ribbon around a square picture frame for her mother. She measures one side of the frame to be 5 cm. How much ribbon does she need?

2. Joey is walking around a circular swimming pool. He has walked around the pool 7 times. The distance across the pool from one side to the other is 25 ft. How far has he walked?

3. Monica is covering one wall in her bedroom with flowery wall paper. The wall paper has three flowers on every square foot. The wall is 17 feet across and 11 feet tall. How many flowers will be on her wall?

4. Matt is covering his notebook with duct tape. The notebook is 8 inches by 11 inches. He wants to leave a 3 inch by 4 inch rectangle blank in the middle so he can write his name. How many square inches of duct tape does he need?

5. The area of the carpet in the classroom library is 80 ft^2 . One side is 10 feet long. Ms. Smith wants to buy a book shelf that is 9 feet long. Will it fit along the other side of the carpet?

6. Ms. Jones is putting a border around her square bulletin board. She already has four feet of border on the bottom of the board. She has 11 feet of blue border and 14 feet of red border. What color border should she use to cover the rest of the board?


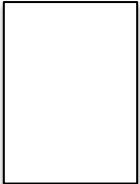

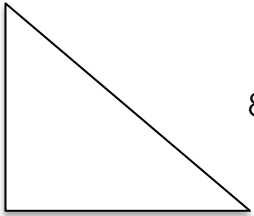
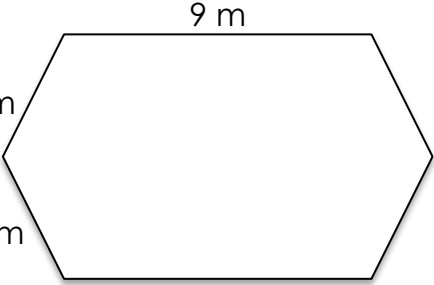
Math Journal #1 ANSWER KEY

Tom is so excited to start measuring area, perimeter, or circumference but he keeps getting the three confused. Help him figure out whether to measure perimeter, area, or circumference for each item below.

Object	Measurement Tom Wants to Use	Measurement Tom Should Use
How much fence to buy to surround his backyard	area	perimeter
How much paper he needs to cover a bulletin board	circumference	area
How long of a ribbon he needs to wrap around a cylinder flower vase	perimeter	circumference
How much tile he needs to cover his kitchen floor	perimeter	area
How much wood he will need to make a picture frame for his school portrait	circumference	perimeter
How far he will run if he goes one lap around a circular track	area	circumference


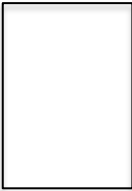
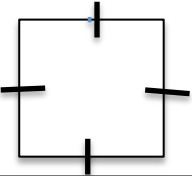
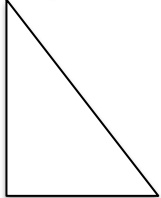
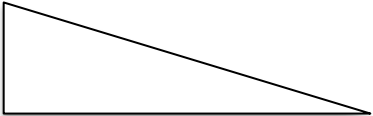
Math Journal #2 ANSWER KEY

Tom is working on finding the perimeter of polygons, but he is getting confused. Correct his perimeter mistakes.

Shape	Perimeter
<p>5 ft</p>  <p>12 ft</p>	<p>$5 \text{ ft} + 12 \text{ ft} = 17 \text{ ft}$ $5 + 5 + 12 + 12 = 34 \text{ ft}$</p>
<p>7 cm</p>  <p>3 cm</p>	<p>$7 \text{ cm} \times 3 \text{ cm} = 21 \text{ cm}$ $7 + 7 + 3 + 3 = 20 \text{ cm}$</p>
<p>4 yd</p> 	<p>$4 \text{ yd} + 4 \text{ yd} = 8 \text{ yd}$ $4 \times 4 = 16 \text{ yd}$</p>
<p>5 mm</p>  <p>8 mm</p> <p>4 mm</p>	<p>$5 \text{ mm} + 4 \text{ mm} + 8 \text{ mm} = 20 \text{ mm}$ $5 + 4 + 8 = 17 \text{ mm}$</p>
 <p>9 m</p> <p>4 m</p> <p>5 m</p>	<p>$9 \text{ m} + 4 \text{ m} + 5 \text{ m} = 18 \text{ m}$ $5 + 5 + 4 + 4 + 9 + 9 = 36 \text{ m}$</p>
<p>A square with one side measuring 5 ft</p>	<p>$5 \text{ ft} \times 5 \text{ ft} = 25 \text{ ft}$ $5 \times 4 = 20 \text{ ft}$</p>
<p>A rectangle with one side measuring 3 m and another side measuring 6 m</p>	<p>$3 \text{ m} + 6 \text{ m} = 9 \text{ m}$ $3 + 3 + 6 + 6 = 18 \text{ m}$</p>

Math Journal #3 ANSWER KEY

Tom is working on finding the area of polygons, but he is getting confused. He has gotten every question wrong. Correct his area mistakes. Make sure to include the correct unit.

Shape	Area
<p>6 ft </p> <p>11 ft</p>	<p>$6\text{ ft} + 6\text{ ft} + 11\text{ ft} + 11\text{ ft} = 36\text{ ft}$</p> <p>$6 \times 11 = 66\text{ square ft}$</p>
<p>9 cm </p> <p>4 cm</p>	<p>$9\text{ cm} + 4\text{ cm} = 13\text{ cm}$</p> <p>$9 \times 4 = 36\text{ square cm}$</p>
<p>4 yd </p>	<p>$4\text{ yd} \times 4\text{ yd} = 16\text{ yd}$</p> <p>$4 \times 4 = 16\text{ square yd}$</p>
<p>7 mm </p> <p>4 mm</p>	<p>$7\text{ mm} \times 4\text{ mm} = 28\text{ mm}$</p> <p>$7 \times 4 = 28 \div 2 = 14\text{ square mm}$</p>
<p>2 in </p> <p>9 in</p>	<p>$9\text{ in} \times 2\text{ in} = 18\text{ in}$</p> <p>$9 \times 2 = 18 \div 2 = 9\text{ square in}$</p>
<p>A square with one side measuring 5 ft</p>	<p>$5\text{ ft} + 5\text{ ft} = 10\text{ ft}$</p> <p>$5 \times 5 = 25\text{ square ft}$</p>
<p>A rectangle with one side measuring 3 m and another side measuring 6 m</p>	<p>$3\text{ m} + 6\text{ m} = 9\text{ m}$</p> <p>$3 \times 6 = 18\text{ square m}$</p>

Math Journal #4 ANSWER KEY

Tom is working on finding the circumference of circles, but he is getting confused. Help him to fill in the table for each circle. Also, label the radius and diameter on each circle

Circle	Radius	Diameter	Circumference
	5 in	10 in	10π in
	3.5 ft	7 ft	7π ft
	10 mm	20 mm	20π mm
	9 yd	18 yd	18π yd
	50 cm	100 cm	314 cm

Math Journal #5 ANSWER KEY

Tom needs help solving these word problems. Help him by showing your work step by step and drawing a diagram to support your strategy.

1. Sally is wrapping a ribbon around a square picture frame for her mother. She measures one side of the frame to be 5 cm. How much ribbon does she need?

$$5 + 5 + 5 + 5 = 20 \text{ cm}$$

2. Joey is walking around a circular swimming pool. He has walked around the pool 7 times. The distance across the pool from one side to the other is 25 ft. How far has he walked?

$$d = 25 \text{ ft}$$

$$C = 25 \times 3.14 = 78.5 \text{ ft}$$

$$78.5 \text{ ft} \times 7 = \underline{549.5 \text{ ft}}$$

-

3. Monica is covering one wall in her bedroom with flowery wall paper. The wall paper has three flowers on every square foot. The wall is 17 feet across and 11 feet tall. How many flowers will be on her wall?

$$17 \times 11 = 187 \text{ square feet of wallpaper}$$

$$187 \times 3 = \underline{561 \text{ flowers}}$$

4. Matt is covering his notebook with duct tape. The notebook is 8 inches by 11 inches. He wants to leave a 3 inch by 4 inch rectangle blank in the middle so he can write his name. How many square inches of duct tape does he need?

$8 \times 11 = 88$ square inches on the cover

$3 \times 4 = 12$ square in blank rectangle

$88 - 12 = \underline{76}$ square inches of duct tape

5. The area of the carpet in the classroom library is 80 ft^2 . One side is 10 feet long. Ms. Smith wants to buy a book shelf that is 9 feet long. Will it fit along the other side of the carpet?

$80 \text{ ft}^2 \div 10 = 8$ feet on the other side of the carpet

No the book shelf will be too long

6. Ms. Jones is putting a border around her square bulletin board. She already has four feet of border on the bottom of the board. She has 11 feet of blue border and 14 feet of red border. What color border should she use to cover the rest of the board?

Perimeter = $4 + 4 + 4 + 4 = 16$ feet

$16 \text{ ft} - 4 \text{ ft} = 12 \text{ ft}$

She should use the red border because she doesn't have enough blue left

Clipart Credits

Graphics by and MyClipartStore.com and



**Thank you for purchasing this product
from The View from Fourth!**

**Check out the other products in my store:
[https://www.teacherspayteachers.com/
Store/The-View-From-Fourth](https://www.teacherspayteachers.com/Store/The-View-From-Fourth)**

**Please leave feedback on your purchase
and follow me to see my other products!**

©The View from Fourth. All Rights Reserved