

MEASUREMENT

Area, Perimeter, Time, Weight & Capacity

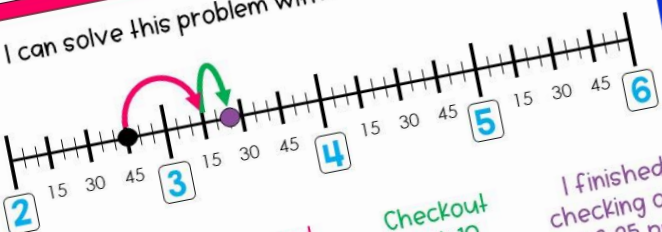
Sample Journal Response

You arrived at the grocery store at the time shown on the clock. You spent 30 minutes shopping and 10 minutes checking out. What time were you done checking out?



3.7C #1a

I can solve this problem with an elapsed time ruler.



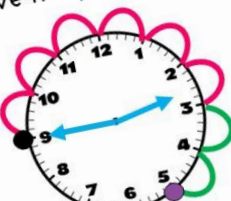
I arrived at the grocery store at 2:45 pm.

Shopped for 30 minutes.

Checkout took 10 minutes.

I finished checking out at 3:25 pm.

I can solve this problem with a clock.



I counted by 5's to make jumps on the clock.

You arrived at the grocery store at the time shown on the clock. You spent 30 minutes shopping and 10 minutes checking out. What time were you done checking out?



3.7C #1a

3rd GRADE

Journal Prompts MARVEL Math

Ready-to-Use Journal Prompts to Deepen Understanding

TEKS 3.7B

Determine the **PERIMETER** of a polygon

The perimeter of the rectangle shown is 32 cm. Show at least one way to prove that the perimeter of this rectangle is 32 cm.

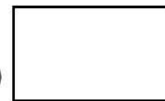


10 cm

6 cm

3.7B #1a

The perimeter of the rectangle shown is 48 cm. Show at least one way to prove that the perimeter of this rectangle is 48 cm.

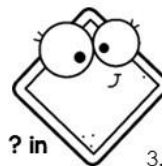


15 cm

9 cm

3.7B #1b

The perimeter of the square shown is 32 inches. Show how to find the length of one side of the square.



? in

3.7B #2a

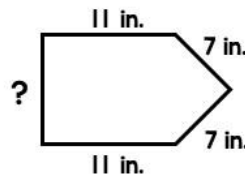
The perimeter of the octagon shown is 48 inches. Show how to find the length of one side of the octagon.



? in

3.7B #2b

The perimeter of the pentagon shown is 45 inches. Show how to find the length of the missing side of the pentagon.



?

11 in.

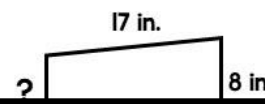
7 in.

7 in.



3.7B #3a

The perimeter of the trapezoid shown is 47 inches. Show how to find the length of the missing side



?

17 in.

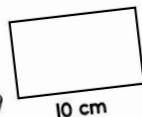
8 in.



Easy-to-Use Math Station

Print the Sample Journal Response pages to give students ideas on how to respond.

The perimeter of the rectangle shown is 32 cm. Show at least one way to prove that the perimeter of this rectangle is 32 cm.



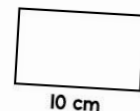
6 cm

10 cm

3.7B #1a

Sample Journal Response

The perimeter of the rectangle shown is 32 cm. Show at least one way to prove that the perimeter of this rectangle is 32 cm.



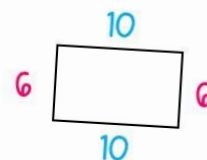
6 cm

10 cm

3.7B #1

One Way:

Label the other sides of the rectangle.

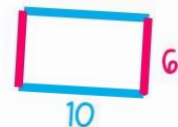


Add all the sides to find the perimeter.

$$l + l + w + w = \text{perimeter} \\ 10 + 10 + 6 + 6 = 32 \text{ cm}$$

Another Way:

Use multiplication to find the perimeter of the rectangle.



$$2 \times l \quad 2 \times w \\ 2 \times 10 = 20 \quad 2 \times 6 = 12$$

Put the two together

$$20 + 12 = 32 \text{ cm}$$

Use these Journal Prompts as **Early Finisher Work** or **Meaningful Homework**

Create at least 2 rectangles with an area of 24 square units. Find the perimeter of each rectangle.

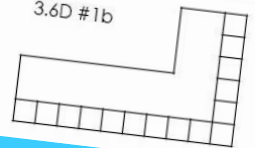


3.6C/3.7B
#1b

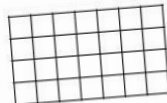
Show how to find the area of this figure. Use multiplication equations in your explanation.



3.6D #1b



Show how to find the area of this rectangle. Use these words in your explanation:



3.6C #1a

Area

Rows

Unit Squares

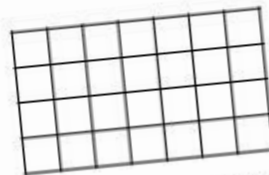
Create at least 2 rectangles with an area of 16 square units. Find the perimeter of each rectangle.



3.6C/3.7B
#1a

Prompts for each of the Measurement TEKS

Show how to find the area of this rectangle. Use these words in your explanation:



3.6C #1a

Area **Rows** **Unit Squares**

Show how to find the area of this rectangle. Use these words in your explanation:



3.6C #1b

Area **Rows** **Unit Squares**

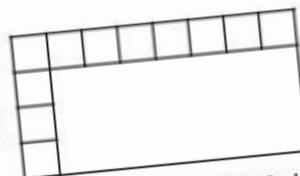
Show how to find the area of this rectangle. Use these words in your explanation:



3.6C #1c

Area **Rows** **Unit Squares**

Show how to find the area of this rectangle. Use these words in your explanation:



3.6C #1d

Area **Rows** **Unit Squares**

This resource includes a
printable sample response
for the first version of each prompt.

There are 9 Sample Journal Responses

Sample Journal Response

The perimeter of the square shown is 32 inches. Show how to find the length of one side of the square.



The perimeter is the distance around a shape.

This shape is a square, so it has 4 equal sides.

Addition Equation: $? + ? + ? + ?$

Multiplication Equation: $4 \times ?$

?	?	?	?
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Sample Journal Response

Think about field day at your school and the things you may use to play games. Name 2 things that could be measured with liquid volume (capacity) measurements. Name 2 different things that could be measured by weight. List the units each thing could be measured with.

3.7D #1a



Liquid Volume (Capacity)

The volume of water in a cup during a relay race.

The volume of water need to fill the dunk tank.

Units this could be Measured with

cups, milliliters, fluid ounces

gallons, liters

Weight

How heavy the rope is for tug-o-war.

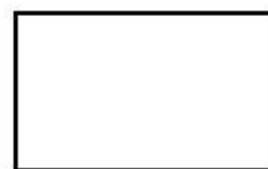
How heavy the...

pounds, ounces

Every Journal Prompt includes 2 versions



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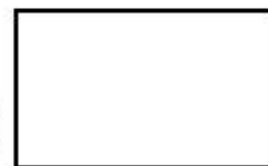


10 cm

6 cm

3.7B #1a

The perimeter of the rectangle shown is 48 cm. Show at least one way to prove that the perimeter of this rectangle is 48 cm.



15 cm

9 cm

3.7B #1b

About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.

