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For intervention tips, click here to head to my blog post, "6 Tips for Making Math Intervention Work in the Middle Grades."

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DATA TRACKING

PRE AND POST ASSESSMENT TR

GEOMETRY

Name	Pre-Assessment	Post-Assessment	Notes

PROGRESS TRACKING

AREA OF TRIANGLES

Name	Review Sheet	Extra Practice	Error Analysis

PROGRESS TRACKING

VOLUME & SURFACE AREA APPLICATIONS

Name	Review Sheet	Extra Practice	Error

TRACK STUDENT PROGRESS

PROGRESS TRACKING

POLYGONS IN THE COORDINATE PLANE

Name	Review Sheet	Extra Practice	Error Analysis

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PRE + POST ASSESSMENTS

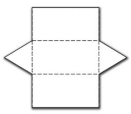
Name: _____ Date: _____

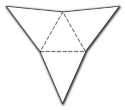
GEOMETRY PRE-ASSESSMENT

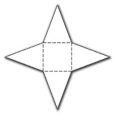
Directions: Complete each problem. Show your work when needed.

1) A three-dimensional figure has two identical pentagonal bases and five recto
Name the figure.

2) Which of the nets shown could be folded to form a square pyramid?

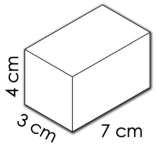
A) 

B) 

C) 

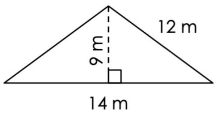
D) 

3) Find the total surface area of the rectangular prism shown.



4) Find the total surface area c
5-inch sides.

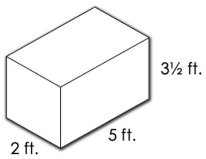
5) Find the area of the triangle shown.



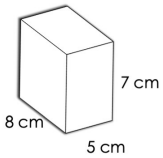
6) A triangle has a base of 8 in
area of 52 square inches. W
perpendicular height?

GEOMETRY ASSESSMENT

9) Find the volume.

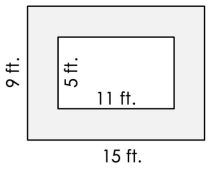


10) Find the volume.



11) A rectangular flower bed measures 18 feet long and 7 feet wide. How many square feet of mulch are needed to cover the entire flower bed?

12) Find the area of the spa deck.



13) Two moving boxes are available. Box A measures 9 inches long, 5 inches wide, and 6 inches tall. Box B measures 8 inches long, 7 inches wide, and 5 inches tall. Which box holds more? How much more?

14) A rectangular storage cabinet measures 5 feet long, 4 feet wide, and 3 feet tall. Only the four side faces will be painted. How many square feet will be painted?

ct the points
3, −2), $D(-4, -2)$. What
Find its perimeter.

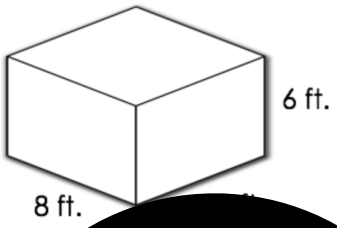
16) A rectangle has vertices at $(-2, 5)$, $(5, 5)$, $(5, 1)$ and $(-2, 1)$. Find the area.

* Required

1) Find the area of the figure formed by the points (3, 1), (3, -3), (-2, 1), and (-2, -3). * 1 point

Your answer

2) Find the surface area of the figure. * 1 point



Your

1 point

PRE/POST ASSESSMENTS IN PRINT AND GOOGLE FORMS

Geometry (Post-Assessment)

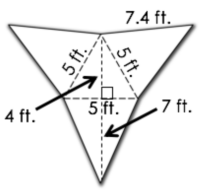
Directions: Find each answer. Show your work on a separate piece of paper.

* Required

1) Find the area of the figure formed by the points (5, 0), (5, -4), and (-1, -4). 1 point *

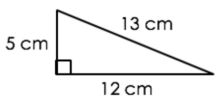
Your answer

2) Find the surface area of the figure represented by the given net. * 1 point



Your answer

3) Find the area of the triangle. * 1 point



Your answer

4) Find the area of the shape. * 1 point

SKILLS REVIEW

SKILL R

3D FIGURES AND NET

Key Concepts:

A **net** is a flat pattern of 2D shapes that can be folded to make a 3D figure.

- Each shape in the net represents a **face** of the solid.
- The number and shape of the faces must match the solid.
- The faces must be arranged so they can fold together without overlapping.

Example: A cube has 6 square faces. Its net must contain 6 connected squares arranged so they fold into a cube.

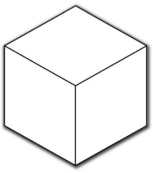
How I feel about this conc

- ☐ I Completely Get It
- ☐ I'm Stru
- ☐ I've Almost Got It
- ☐ I'm Lost

I still don't understand:

Practice: Match each shape to the correct net.

1)



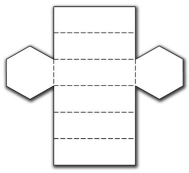
Net _____

2)

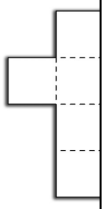


Net _____

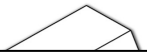
A)



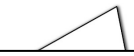
C)



3)



4)



B)

D)

SKILL REVIEW

AREA OF TRIANGLES

Key Concepts:

The area of a triangle is the amount of space inside the triangle.

A triangle has half the area of a parallelogram with the same base and height.

$$A = \frac{1}{2}bh$$

- **Base (b):** Any side of the triangle chosen as the base.
- **Height (h):** The perpendicular distance from the base to the opposite vertex.
- The height must form a **90° angle** with the base or its extension.
- Area is measured in **square units.**

Remember: A slanted side is not necessarily the height!

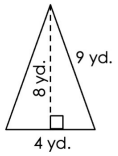
How I feel about this concept:

- ☐ I Completely Get It
- ☐ I'm Struggling
- ☐ I've Almost Got It
- ☐ I'm Lost

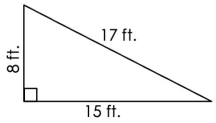
I still don't understand:

Practice: Find the area of each triangle.

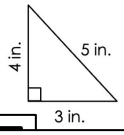
1)



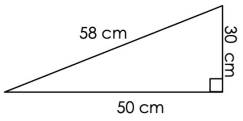
2)



3)



4)



SKILL RE

AREA APPLICATIONS

Key Concepts:

Area measures the amount of space inside a two-dimensional figure. We use area to determine how much material is needed to cover a surface, such as flooring, paint, or grass.

Common Area Formulas

- Rectangle: $A = l \times w$
- Square: $A = s^2$
- Triangle: $A = \frac{1}{2}bh$

When solving an area problem:

1. Identify the shape and the measurements given.
2. Choose the correct area formula.
3. Find the area or use the area to determine a missing measurement.
4. Check whether the question asks for square units, a length, a cost, or an amount of material.

How I feel about this conce

- ☐ I Completely Get It
- ☐ I'm Strugg
- ☐ I've Almost Got It
- ☐ I'm Lost

I still don't understand:

Practice:

1) You w… A kitchen table has an area of 21 sq… feet. If the table is 3 feet wide, how l… …?

3) …t costs $1.50 per square foot. Y… …to buy carpet for a room that i… …feet wide and 10 feet long. How… …uch will you spend on carpet?

GUIDED PRACTICE AND STUDENT RESPONSE

SKILL REVIEW

POLYGONS IN THE COORDINATE PLANE

Key Concepts:

A **coordinate plane** uses two number lines, the x-axis and y-axis, to locate points.

- An ordered pair is written as (x, y). Move left or right first, then up or down.
- Connect plotted points to form a polygon.
- **Horizontal side length**: Find the difference between the x-coordinates.
- **Vertical side length:** Find the difference between the y-coordinates.
- **Perimeter:** Add the lengths of all sides.
- **Area:** Use the appropriate area formula or divide the polygon into familiar shapes.

Remember: Count the units between coordinates, not just the grid lines.

How I feel about this concept:

- ☐ I Completely Get It
- ☐ I'm Struggling
- ☐ I've Almost Got It
- ☐ I'm Lost

I still don't understand:

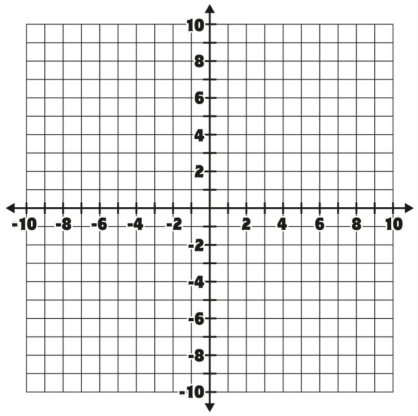
Practice:

1) Plot the given points on the coordinate plane:
$A(-4, 6), B(5, 6), C(5, -3), D(-4, -3)$

2) What shape is formed?

3) Find the perimeter of the shape.

4) Find the area of the shape.



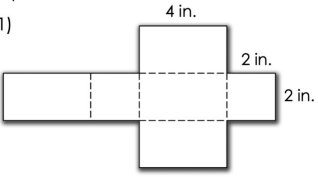
PRACTICE WORKSHEETS

EXTRA PRA

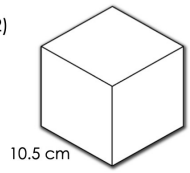
SURFACE AREA AND NE

Directions: Find the total surface area of each figure. Show your work and include the cor
square units.

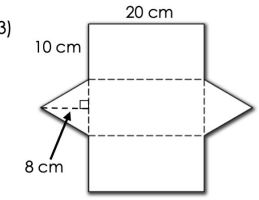
1)



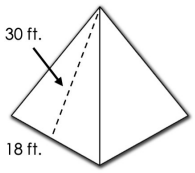
2)



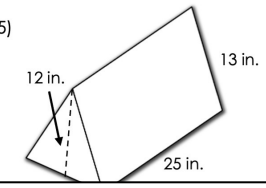
3)



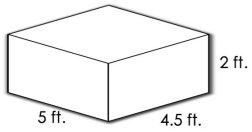
4)



5)



6)

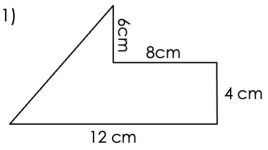


EXTRA PRACTICE

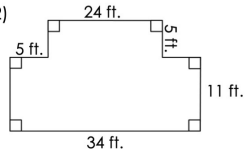
AREA OF SPECIAL SHAPES

Directions: Find the area of each figure. Show your work and include the correct square units.

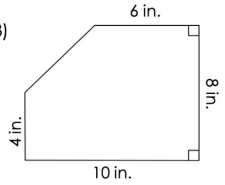
1)



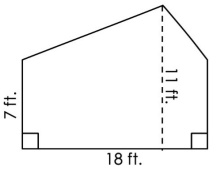
2)



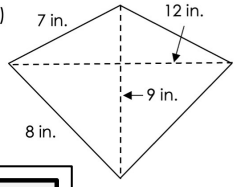
3)



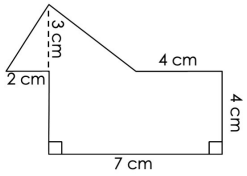
4)



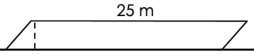
5)



6)



8)



EXTRA PRACTICE

VOLUME OF RECTANGULAR PRISMS

Directions: Find the volume of each figure. Show your work and include the correct cub

1) Find the volume of a rectangular prism that is 2 inches tall, 10 inches wide and 9 inches long.

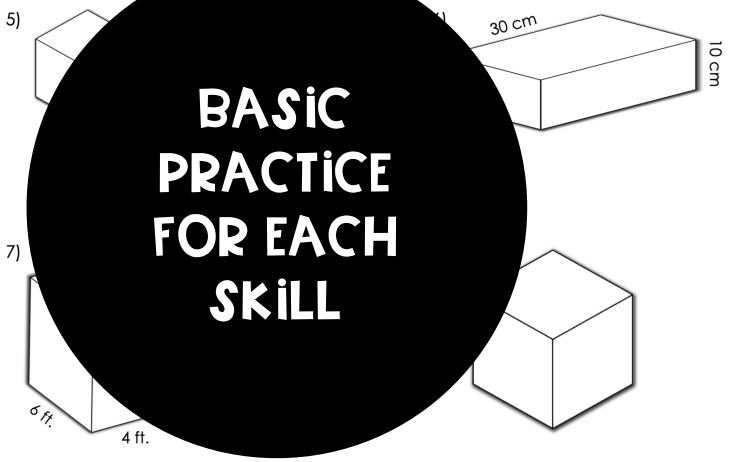
2) Find the volume of a cube with a s
of 20 centimeters.

3) Find the volume of a rectangular prism that is 2½ centimeters long, 3 centimeters wide and 4 centimeters tall.

4) Find the volume of a rectangular p
is 5.5 inches long, 6 inches wide an
tall.

5)

7)



BASIC PRACTICE FOR EACH SKILL

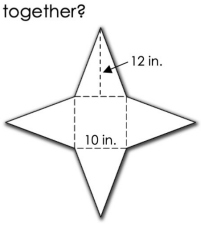
EXTRA PRACTICE

VOLUME & SURFACE AREA APPLICATIONS

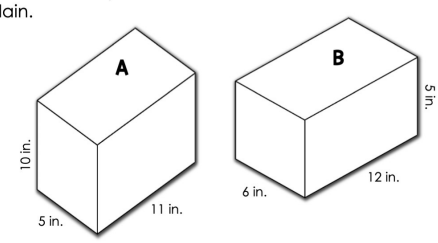
Directions: Read each problem carefully and solve.

1) Kiera wants to fill a box with candy. The box is 4 inches tall, 6 inches wide and 4 inches long. How much room does she have for candy?

2) How much paper will be needed to cover this box once it is put together?

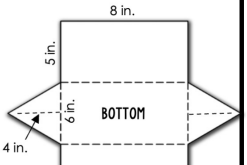


3) Jonah has two choices for an aquarium. He wants to buy the one that will hold the most water. Which aquarium should he buy? Explain.



4) Which box is larger? A cube with 10.5-inch sides or a rectangular prism that is 8 inches long, 12 inches tall and 10 inches wide?

5) This box will be painted (except the bottom) once assembled. How much paint is needed?



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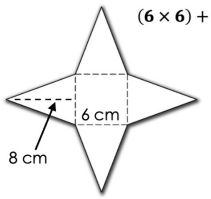
ERROR ANALYSIS

ERROR ANALYSIS

SURFACE AREA AND NE

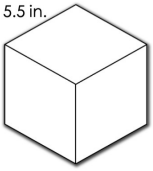
Directions: Identify and correct each error.

1) Find the surface area of the figure represented by the net.



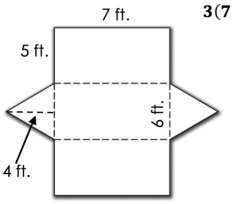
$(6 \times 6) + 4(6 \times 8) = 228\ cm^2$

2) Find the surface area of the figure.



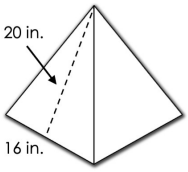
$3(5.5)^2 = 90.$

3) Find the surface area of the figure represented by the net.



$3(7 \times 5) + 2(6 \times 4)$
$153\ ft.^2$

4) Find the surface area of the figure.



$4(\frac{1}{2} \times 16 \times$
$640\ in.^2$

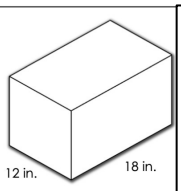
ERROR ANALYSIS

VOLUME & SURFACE AREA APPLICATIONS

Directions: Identify and correct each error.

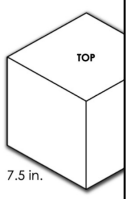
1) What is the volume of the fish tank?

$12 \times 12 = 144$
$18 \times 12 = 216$
$2(216) + 4(144) = 1{,}008\ in.^3$

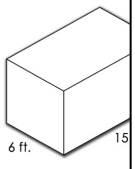


2) Hanna is covering a box with paper. The box has 7.5-inch sides. How much paper will she need if she does not cover the top?

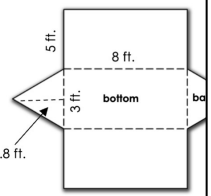
$7.5 \times 7.5 = 56.25$
$56.25 \times 6 = 337.5\ in.^2$



3) The prism rep truck. The Jones family needs a truck tha hold 600 ough? Explain.



4) w much paint will be nee

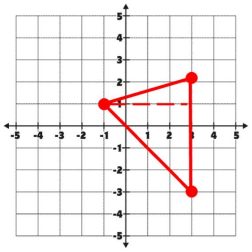


ERROR ANALYSI

POLYGONS IN THE COORDINATE PLANE

Directions: Identify and correct each error.

1) Plot the points and find the area of the figure formed. $A(-3,3), B(2,3), C(2,-1)$

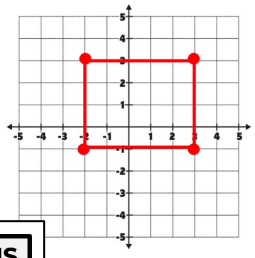


$A = \frac{1}{2} \times 4 \times 3$
$6\ units^2$

2) Describe the error(s) made in #1.

Answer correctly.

3) Plot the points and find the area of the figure formed. $A(-1,3), B(3,3), C(3,-2), D(-1,-2)$

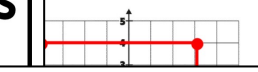


$A = 4 \times 5$
$20\ units^2$

4) Describe the error(s) made in #3.

Answer correctly.

the points and find the area of the figure ned. $A(-4,4), B(3,4), C(3,0), D(-4,-3)$



You cannot

6) Describe the error(s) made in #5.

ERROR ANALYSIS

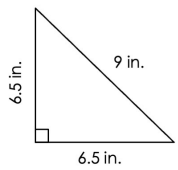
AREA OF TRIANGLES

Directions: Identify and correct each error.

1) What is the formula for finding the area of a triangle?

$A = b \times h \times 2$

2) Find the area.



$\frac{1}{2} \times 6.5 \times 9$
$29.25\ in.^2$

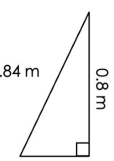
3) Find the area of a triangle with a 6-centimeter base and a 7-centimeter height

$6 \times 7 \times 2$
$84\ cm^2$

4) Find the area of triangle with a 12.2-foot base that is 4 feet tall.

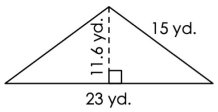
$12.2 \div 2 \times 4$
$244\ ft.^2$

5) Find the area.



$0.25 \times 0.8 \times 2$
$0.4\ m^2$

6) Find the area.



$23 \times 15 \div 2$
$172.5\ yd.^2$

STUDENTS IDENTIFY AND CORRECT ERRORS

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