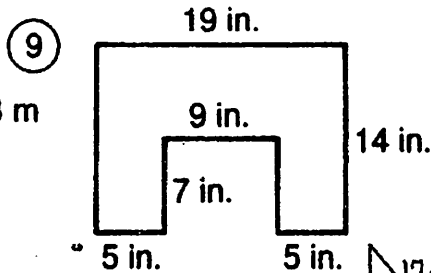
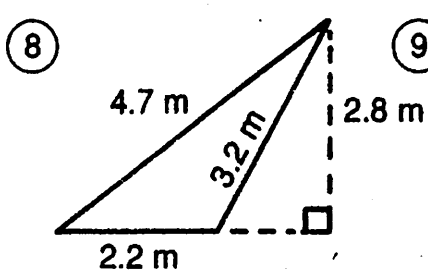
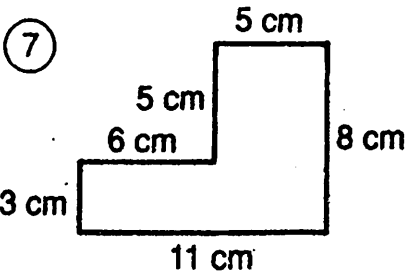
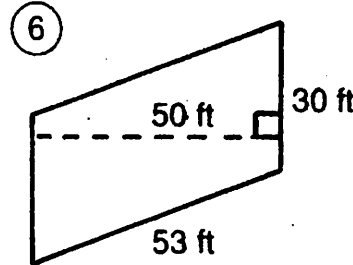
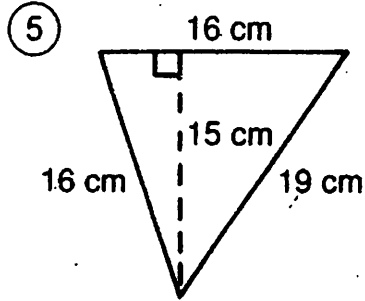
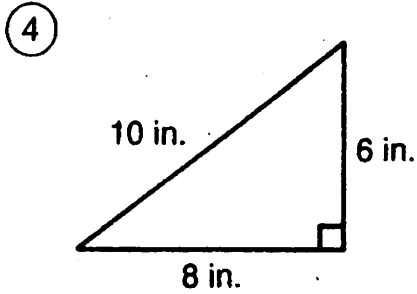
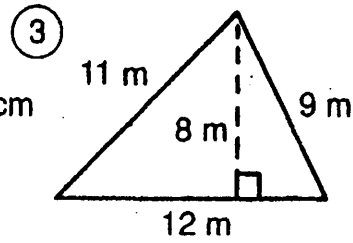
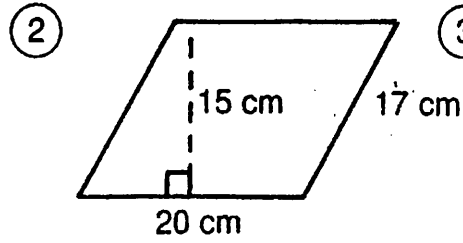
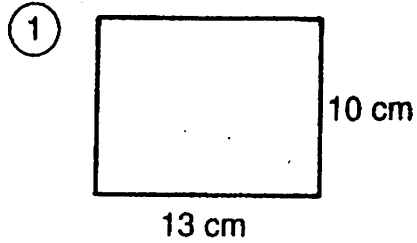


NAME _____

Why Was Igor Unhappy About His Opening Test Even Though He Got Everything Right?

Give both the perimeter and area of each figure. Find each answer in the appropriate answer column. Fill in the correct unit of measure for each answer you choose, then circle the number-letter next to it. Write the letter in the matching numbered box at the bottom of the page. Record answers along the side and bottom.



⑩ Rectangle with sides of 22 cm and 28 cm.

⑪ Square with sides measuring 12 in.

⑫ Right triangle with sides of 8 m, 15 m and 17 m.

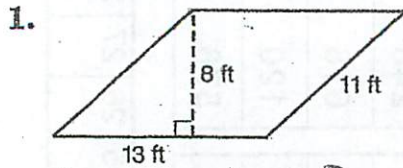
Perimeters		Areas	
95	21-S	58	13-L
24	17-E	34	24-A
67	18-S	300	6-S
10.1	8-E	60	21-H
46	12-L	136	4-R
152	16-R	3.08	29-S
100	25-W	64	11-O
38	20-T	24	26-O
32	1-H	144	27-R
40	4-M	3.26	19-I
9.4	27-L	130	28-D
51	5-I	1,500	2-E
74	22-E	203	11-A
34	25-F	48	9-D
48	7-S	240	13-P
166	15-T	616	19-O
49	8-A	120	23-R
80	16-H	576	7-H

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
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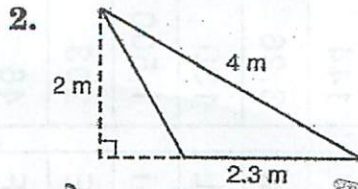
1. P = _____ A = _____
 9. P = _____ A = _____
 10. P = _____ A = _____
 11. P = _____ A = _____
 12. P = _____ A = _____

1. P = _____ A = _____
 2. P = _____ A = _____
 3. P = _____ A = _____
 4. P = _____ A = _____
 5. P = _____ A = _____
 6. P = _____ A = _____
 7. P = _____ A = _____

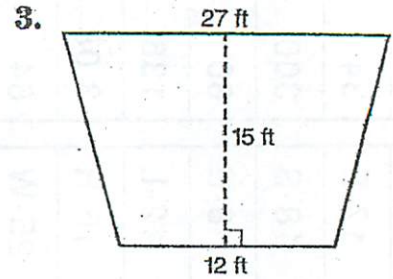
Area Quiz Review



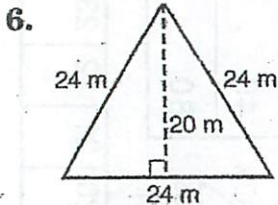
$$A = 104 \text{ ft}^2$$



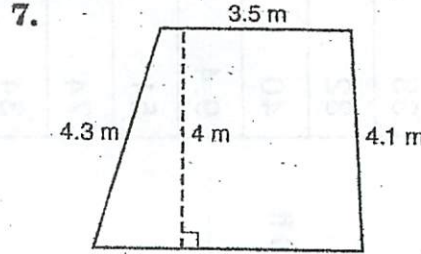
$$A = 2.3 \text{ m}^2$$



$$A = 292.5 \text{ ft}^2$$



$$A = 240 \text{ m}^2$$



$$A = 17 \text{ m}^2$$

For each problem used, compare your work to the solutions provided. Explain what you did wrong and what you should have done. Use complete sentences and correct your work on a separate paper. Then, complete all review tasks.

1. Parallelogram

Area equals base times height. The base and height form a right angle.

$$A = bh$$

$$= 13 \cdot 8$$

$$= 104 \text{ ft}^2$$

$$\begin{array}{r} 2 \\ 13 \\ \times 8 \\ \hline 104 \end{array}$$

2. Triangle

Area equals half of the base times height. The base and height form a right angle.

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

$$= \frac{1}{2} \cdot 2.3 \cdot 2$$

$$= \frac{4.6}{2}$$

$$= 2.3 \text{ m}^2$$

$$\begin{array}{r} 2.3 \\ \times 2 \\ \hline 4.6 \\ 2 \overline{)4.6} \\ \hline 2.3 \end{array}$$

6. Triangle

Area equals half of the base times height. The base and height form a right angle.

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

$$= \frac{1}{2} \cdot 24 \cdot 20$$

$$= \frac{1}{2} \cdot 480$$

$$= 240 \text{ m}^2$$

$$\begin{array}{r} 24 \\ \times 20 \\ \hline 480 \\ 2 \overline{)480} \\ \hline 240 \end{array}$$

3. Trapezoid:

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

$$= \frac{1}{2} \cdot 12 \cdot 15$$

$$= 6 \cdot 15$$

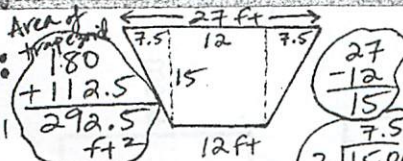
$$= 90 \text{ ft}^2$$

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

$$= \frac{1}{2} \cdot 27 \cdot 15$$

$$= \frac{1}{2} \cdot 405$$

$$= 202.5$$



Rectangle

$$A = bh$$

$$= 12 \cdot 15$$

$$= 180 \text{ ft}^2$$

$$\begin{array}{r} 12 \\ \times 15 \\ \hline 60 \\ +120 \\ \hline 180 \end{array}$$

Left Δ

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

$$= \frac{1}{2} \cdot 7.5 \cdot 15$$

$$= \frac{1}{2} \cdot 112.5$$

$$= 56.25 \text{ ft}^2$$

$$\begin{array}{r} 12 \\ \times 15 \\ \hline 60 \\ +120 \\ \hline 180 \end{array}$$

$$\begin{array}{r} 2 \\ 7.5 \\ \times 15 \\ \hline 37.5 \\ +750 \\ \hline 112.5 \\ 2 \overline{)112.50} \\ \hline 56.25 \end{array}$$

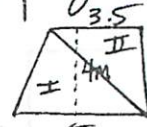
7. Trapezoid:

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

$$= \frac{1}{2} \cdot 5 \cdot 4$$

$$= \frac{1}{2} \cdot 20$$

$$= 10 \text{ m}^2$$



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

$$= \frac{1}{2} \cdot 3.5 \cdot 4$$

$$= \frac{1}{2} \cdot 14$$

$$= 7 \text{ m}^2$$

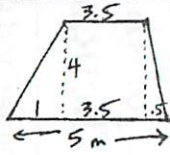
$$\begin{array}{r} 2 \\ 3.5 \\ \times 4 \\ \hline 14.0 \end{array}$$

Rectangle

$$A = bh$$

$$= 3.5(4)$$

$$= 14.0 \text{ m}^2$$



Left Δ

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

$$= \frac{1}{2} \cdot 1 \cdot 4$$

$$= \frac{1}{2} \cdot 4$$

$$= 2 \text{ m}^2$$

Right Δ

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

$$= \frac{1}{2} \cdot 0.5 \cdot 4$$

$$= \frac{1}{2} \cdot 2$$

$$= 1 \text{ m}^2$$

Area of Trapezoid

$$14 \text{ Rectangle}$$

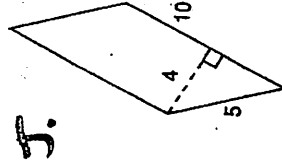
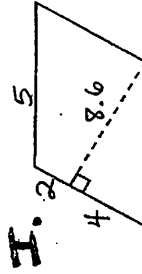
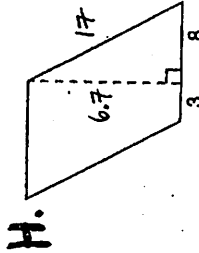
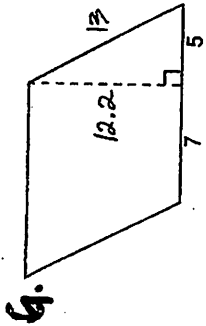
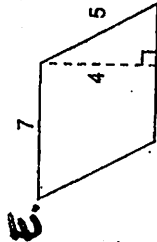
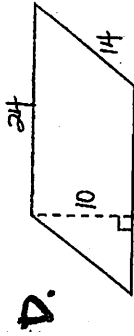
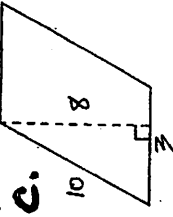
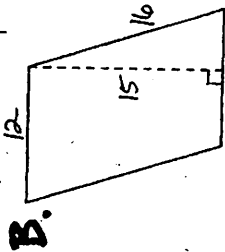
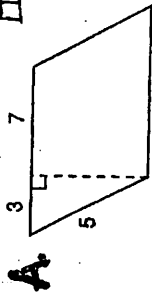
$$+ 2 \text{ Left } \Delta$$

$$+ 1 \text{ Right } \Delta$$

$$= 17 \text{ m}^2$$

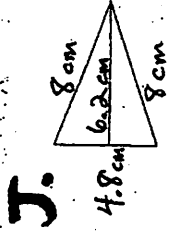
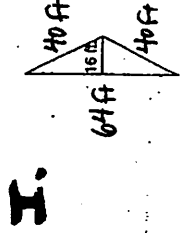
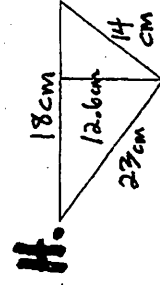
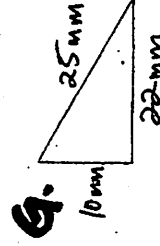
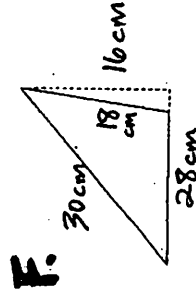
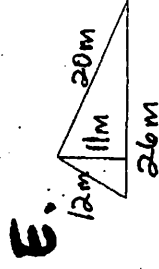
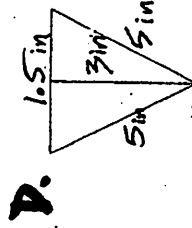
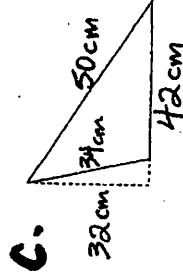
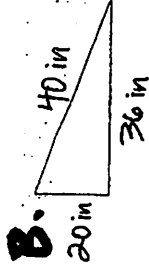
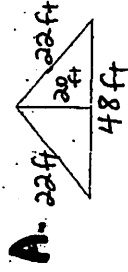
Review: Area of Parallelograms

Find the area of each parallelogram using the formula $A = bh$. Start each problem by writing the phrase, "base and height form a right angle." Then, copy the formula $A = bh$. Substitute the base and height and solve. Complete all work on a separate paper folded into a 2×3 grid. Complete one problem per box on the grid.



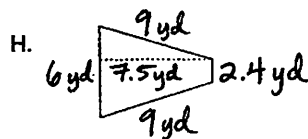
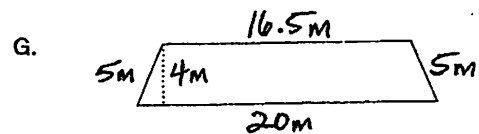
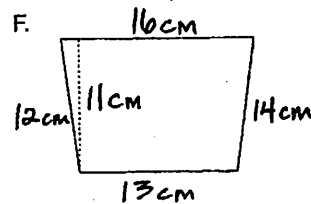
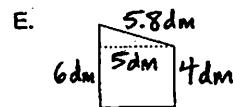
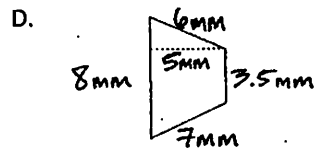
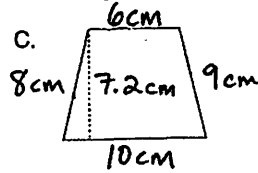
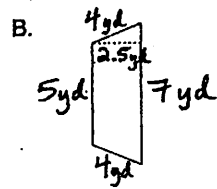
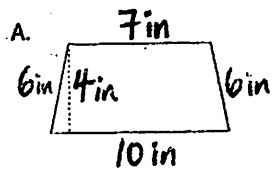
Review: Area of Triangles

Find the area of each triangle using the formula $A = \frac{1}{2}bh$. Start each problem by writing the phrase, "base and height form a right angle." Then, copy the formula $A = \frac{1}{2}bh$. Substitute the base and height with the appropriate values. Complete all work on a separate paper folded into a 2×3 grid. Complete one problem per box on the grid.



Review: Area of Trapezoids

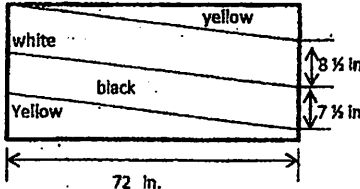
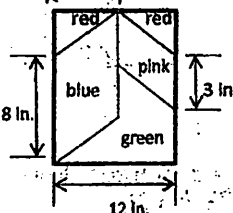
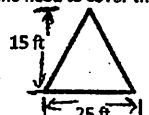
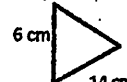
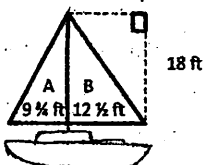
Find the area of each trapezoid using one of the following methods: (a) two triangles or (b) rectangle + triangle(s). You must complete one method for each trapezoid. You may use the formula $A = \frac{1}{2}h(b_1 + b_2)$ only to check your area. Do all work on a separate paper.



I. trapezoid: height, 3 ft; bases, 9.2 ft and 10.8 ft

J. trapezoid: height, 5.6 km; bases, 3.7 km and 12 km

****Fold a sheet of notebook paper to make 16 boxes and SHOW ALL WORK.

<p>1. Norman is a sunflower farmer. His farm is in the shape of a parallelogram with a height measuring 3 kilometers and a base measuring 4.2 kilometers. To the nearest tenth of an acre, what is the total land area Norman uses?</p>	<p>2. Ella and Valerie are in charge of making a banner for the volleyball game this Saturday. How much poster paper will they need for a parallelogram-shaped banner with a height of $3\frac{1}{2}$ feet and base 6 feet?</p>
<p>3. Joseph is painting the flag of Brunel (a country in Southeast Asia) for a geography project at school. How many square inches will he cover with white paint?</p> 	<p>4. The pattern shows the dimensions of a quilting square that Sydney will use to make a quilt. How much blue fabric will she need?</p> <p>[6 in. →]</p> 
<p>5. Use the flag from #3. How many square inches will Joseph cover with black paint?</p>	<p>6. Use the quilting pattern from #4. How much pink fabric will Sydney need?</p>
<p>7. Courtney wants to carpet part of her bedroom that is shaped like a right triangle with base 4 meters and height 5.2 meters. How much carpet will she need?</p>	<p>8. Mrs. Mayo's lawn is triangle-shaped with a base of 25 feet and a height of 10 feet. What is the area of Mrs. Mayo's lawn?</p>
<p>9. Norma has an A-frame cabin. The back is shown below. How many square feet of paint will she need to cover the back of the cabin?</p> 	<p>10. The dough that will be used to make a pig in a blanket is shown below. Before it is rolled around a sausage, it is brushed with vegetable oil. What is the area that needs to be covered with oil?</p> 
<p>11. Daniel just bought a used sailboat with two sails that need replacing. How much sail fabric will Daniel need if he replaces sail A?</p> 	<p>12. Use the picture from #11. How much sail fabric will Daniel need if he replaces sail B?</p> <p>13. BONUS: How much sail fabric would Daniel need if he replaced both sails?</p>