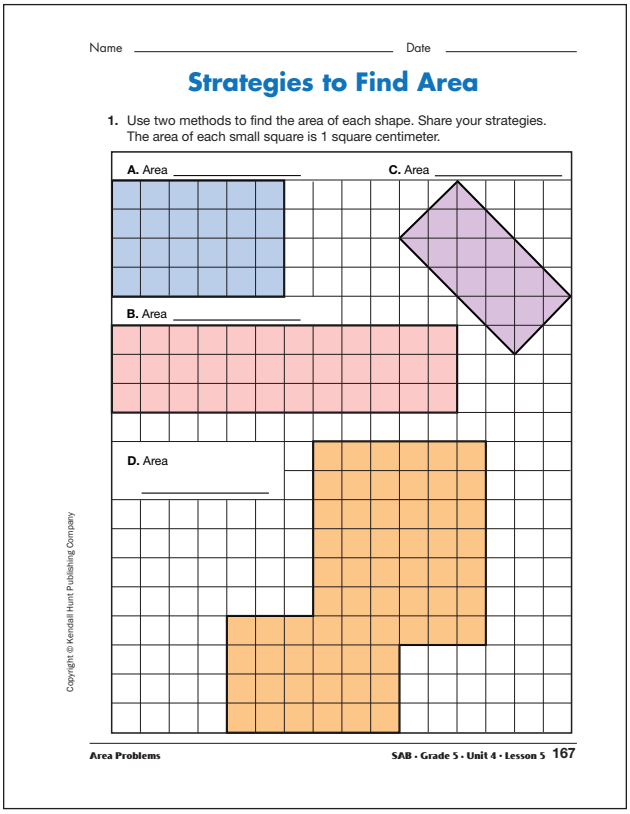
Student Activity Book

Strategies to Find Area (SAB pp. 167–170)
Questions 1–5

1. **A.** 24 sq cm
   B. 36 sq cm
   C.* 16 sq cm
   D.* 63 sq cm
2. **A.** $3 \times 5 = 15$ sq cm
   B. $7 \times 4 = 28$ sq cm
   C. $5 \times 7 = 35$ sq cm
   D. $3 \times 9 = 27$ sq cm
   E.* $2.5 \times 6 = 15$ sq cm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Strategies to Find Area

1. Use two methods to find the area of each shape. Share your strategies. The area of each small square is 1 square centimeter.

A. Area _____ C. Area _____

B. Area _____

D. Area _____

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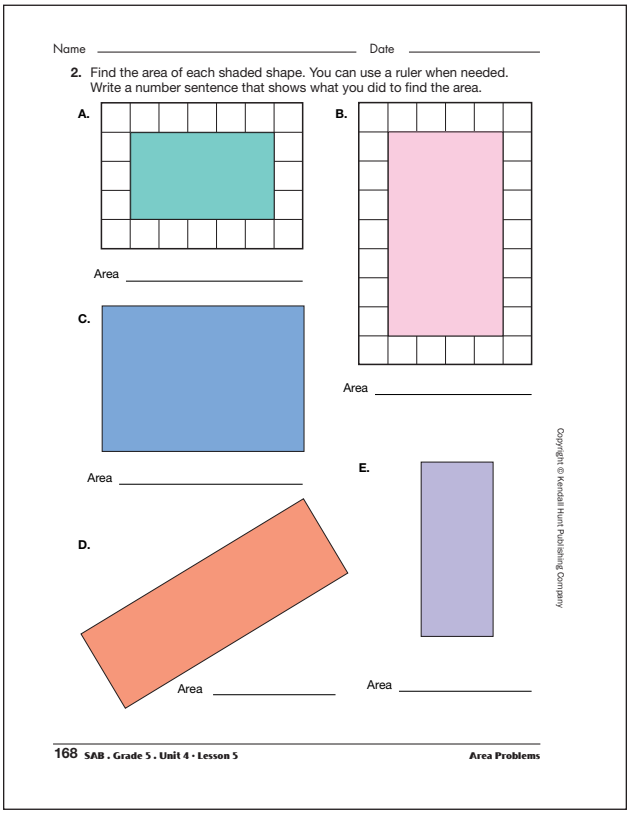
Name _____ Date _____

2. Find the area of each shaded shape. You can use a ruler when needed. Write a number sentence that shows what you did to find the area.

A. Area _____

B. Area _____

C. Area _____

D. Area _____

E. Area _____

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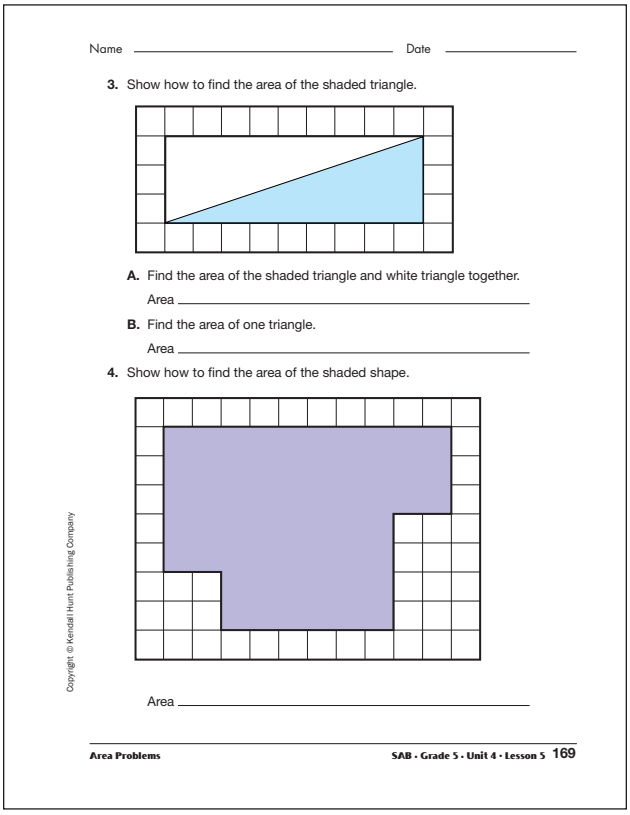
*Answers and/or discussion are included in the lesson.



Name _____ Date _____

3. Show how to find the area of the shaded triangle.

A. Find the area of the shaded triangle and white triangle together.

Area _____

B. Find the area of one triangle.

Area _____

4. Show how to find the area of the shaded shape.

Area _____

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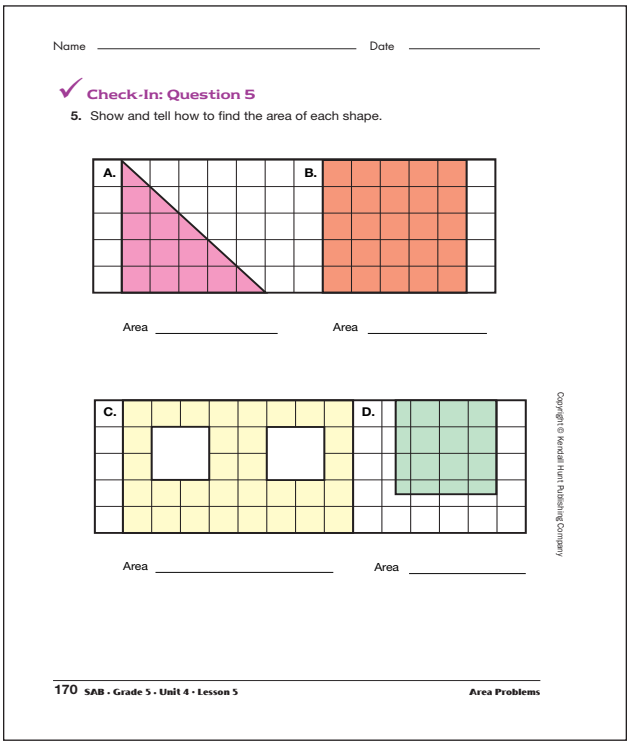

Name _____ Date _____

✓ Check-In: Question 5

5. Show and tell how to find the area of each shape.

A. B.

Area _____ Area _____

C. D.

Area _____ Area _____

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3. A.* $3 \times 9 = 27$ sq cm

B.* $3 \times 9 = 27$ sq cm; $27 \div 2 = 13.5$ sq cm

4.* Possible strategy:

$2 \times 3 = 6$ sq cm;
$7 \times 6 = 42$ sq cm;
$2 \times 5 = 10$ sq cm;
6 sq cm + 42 sq cm + 10 sq cm = 58 sq cm

5. A. 12.5 sq cm; The triangle has one-half the area of the square in Question B.

B. 25 sq cm; The square has double the area of the triangle in Question A.

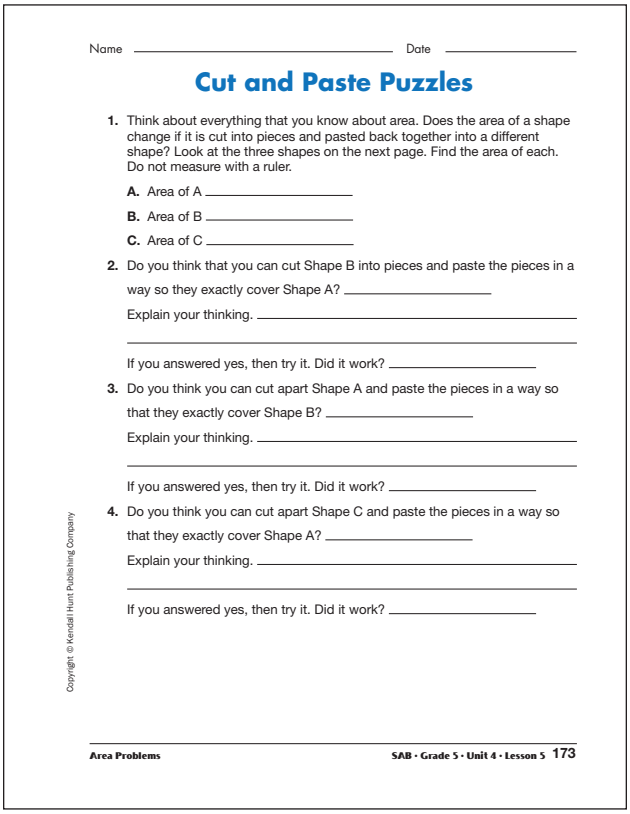
C. Possible response: 32 sq cm; The rectangle's area is $5 \times 8 = 40$ sq cm. I subtracted the area of each square ($2 \times 2 = 4$ sq cm) to find the area of the shape. $40 - 8 = 32$ sq cm.

D. $12\frac{1}{4}$ sq cm; 6 half-square centimeters is 3 whole square centimeters.
$3 + 9 + \frac{1}{4} = 12\frac{1}{4}$ sq cm.

***Answers and/or discussion are included in the lesson.**

Cut and Paste Puzzles (SAB pp. 173–175)
Questions 1–4

1. **A.*** 36 sq cm
   B.* 36 sq cm
   C. 32 sq cm
2. * Yes, Shape A and B have the same area.
3. * Yes, Shape A and B have the same area.
4. No, Shape C has an area of 32 sq cm while Shape A has an area of 36 sq cm.



Name _____ Date _____

Cut and Paste Puzzles

1. Think about everything that you know about area. Does the area of a shape change if it is cut into pieces and pasted back together into a different shape? Look at the three shapes on the next page. Find the area of each. Do not measure with a ruler.
   - **A.** Area of A _____
   - **B.** Area of B _____
   - **C.** Area of C _____
2. Do you think that you can cut Shape B into pieces and paste the pieces in a way so they exactly cover Shape A? _____
   Explain your thinking. _____
   If you answered yes, then try it. Did it work? _____
3. Do you think you can cut apart Shape A and paste the pieces in a way so that they exactly cover Shape B? _____
   Explain your thinking. _____
   If you answered yes, then try it. Did it work? _____
4. Do you think you can cut apart Shape C and paste the pieces in a way so that they exactly cover Shape A? _____
   Explain your thinking. _____
   If you answered yes, then try it. Did it work? _____

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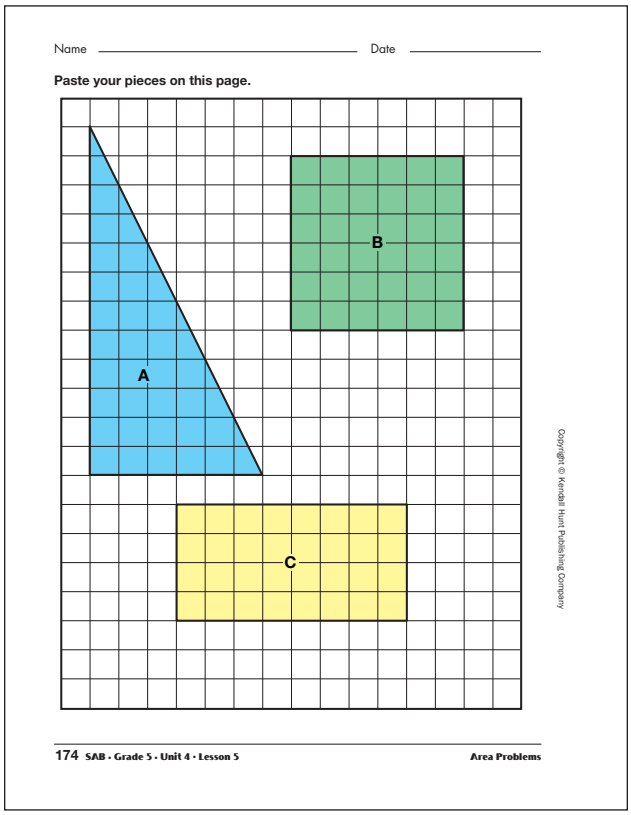

Name _____ Date _____

Paste your pieces on this page.

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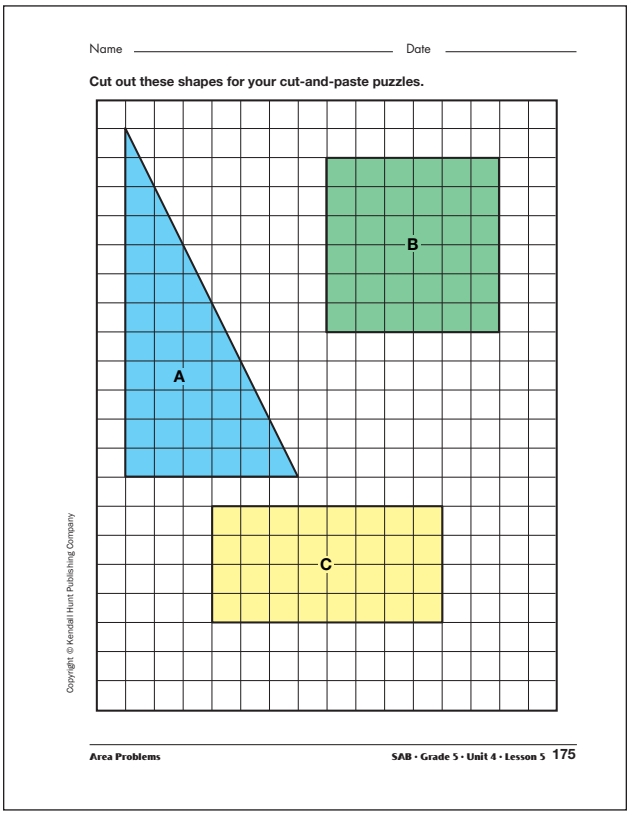

Name _____ Date _____

Cut out these shapes for your cut-and-paste puzzles.

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***Answers and/or discussion are included in the lesson.**