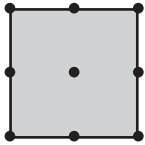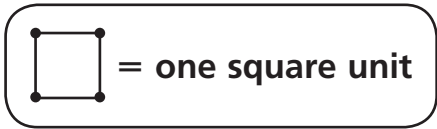# Introducing Area

Find the area of each figure.
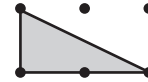
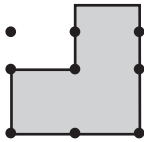$\square$ = one square unit
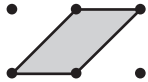
Area: [ ]
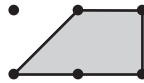
Area: [ ]

Area: [ ]
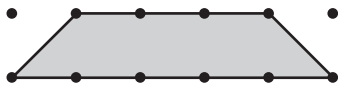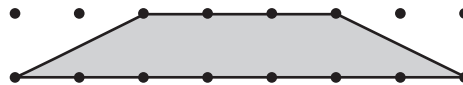
Area: [ ]

Area: [ ]

Area: [ ]

Area: [ ]
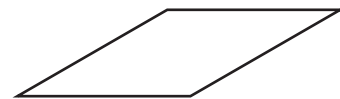
Area: [ ]

Area: [ ]

Test Prep

1 How many lines of symmetry does this figure appear to have? Explain how you found your answer.

_____

_____

_____

_____
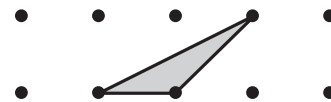
Assembling Congruent Figures to Find Area

1 Make a copy of the triangle. Cut it out. Use it, if you wish, to complete the rest of the problem.
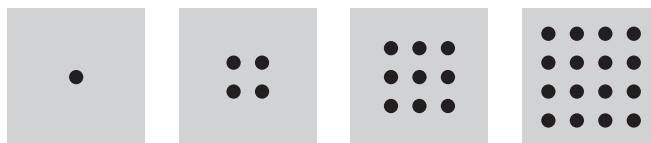
Draw lines to show how many copies of this triangle it would take to cover each of the figures below.

Test Prep

2 These are the first 4 cards in a pattern:

If the pattern continues this way, how many cards will have more than 50 but fewer than 100 dots? Explain how you found your answer.
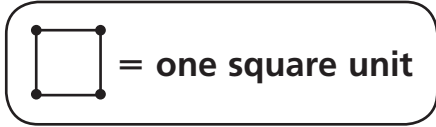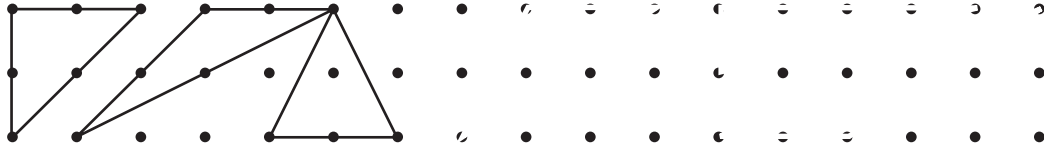
_____

_____
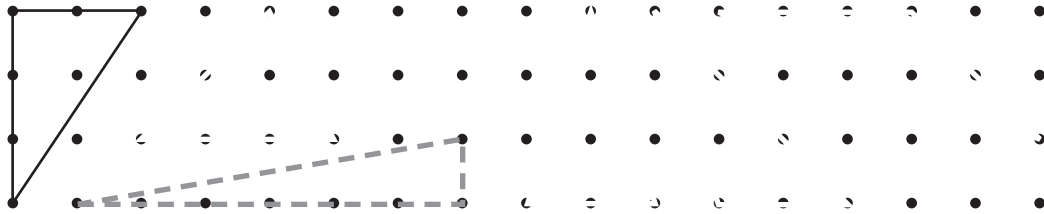
_____

Using Known Areas to Find Unknown Areas

☐ = one square unit

1 Each of these triangles has an area of _____ square units.
Draw 2 or 3 other triangles with the same area.

2 The area of the triangle below is _____ square units.
Draw some other triangles with the same area.

3 The area of the triangle below is _____ square units.
Draw some other triangles with the same area.
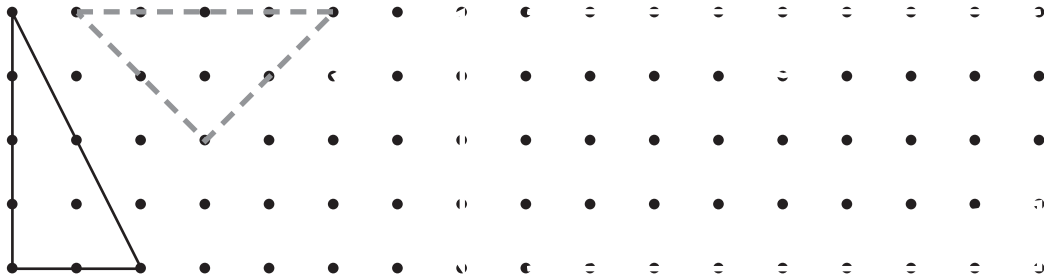
Test Prep

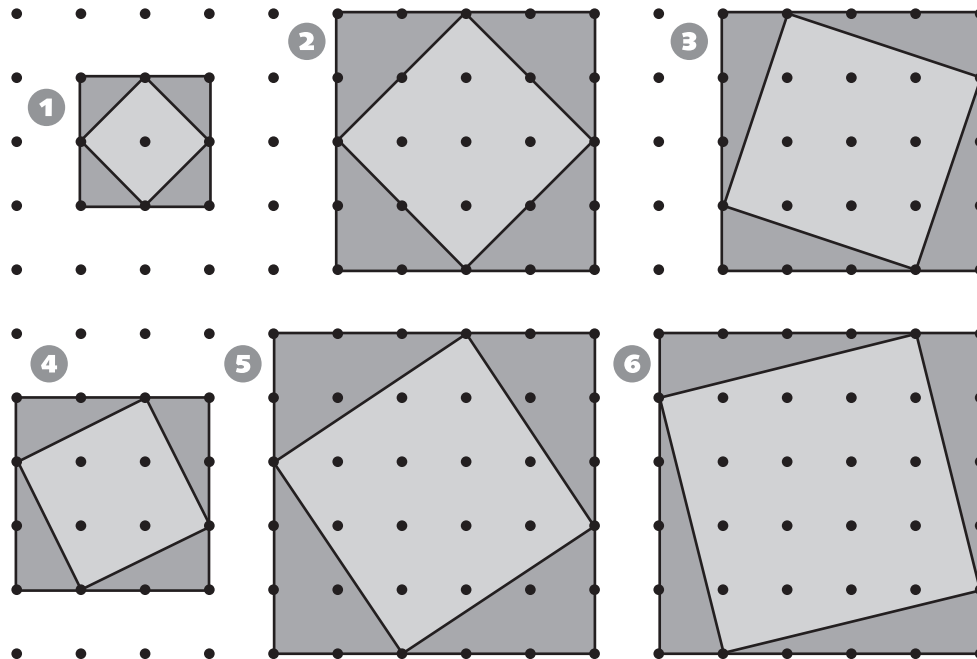**4** How many minutes are in 5 hours 38 minutes? Explain.

_____

_____

_____

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Introducing Standard Units for Measuring Area

□ = one square unit

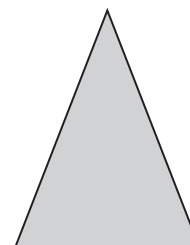**Fill in the chart with the areas of the shaded, unshaded, and total parts in each figure.**

Area (square cm)	1	2	3	4	5	6
dark gray area	2					
light gray area	2					
Total	4					

Test Prep

7 What type of triangle is shown here?

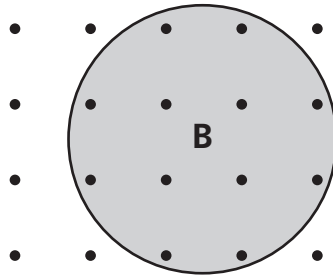**A.** right   **C.** isosceles

B. scalene   **D.** equilateral

Estimating Area in Standard Units

1 Estimate the area of each figure in square centimeters.

☐ **is 1 square cm**

A

B

C

Area: about

Area: about

Area: about

_____ square cm   _____ square cm   _____ square cm

D

E
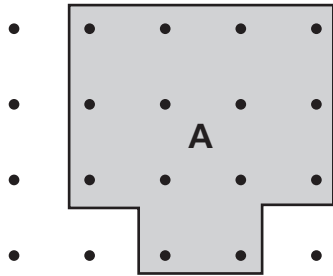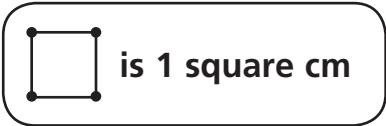
Area: about _____ square cm   **Area:** about _____ square cm
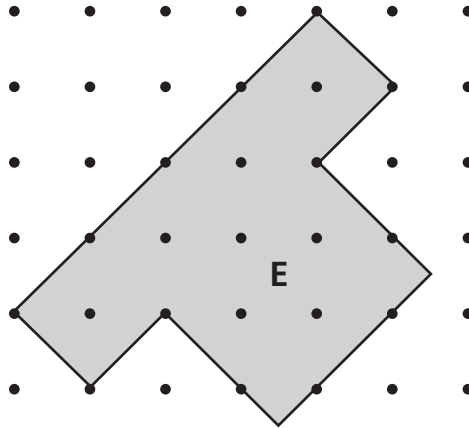
Test Prep

2 Sherry's basketball team has a 40-minute practice every other day. How many hours does the team practice in 12 days? Explain.
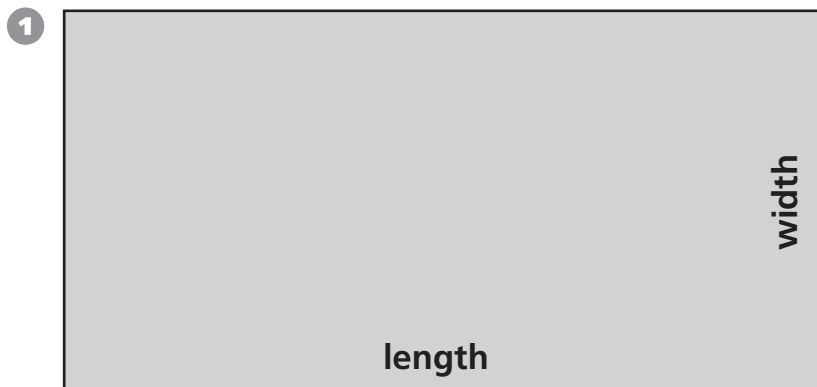
_____

_____

_____

_____

Introducing Perimeter

**Measure the length and width of each rectangle.
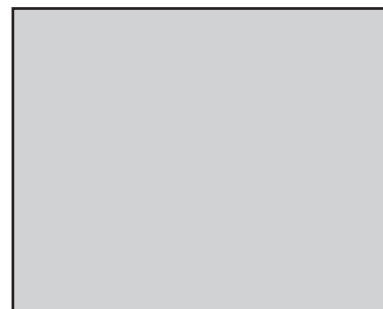Then find the perimeter.**

1

width

length

2

width

length

3

width

length

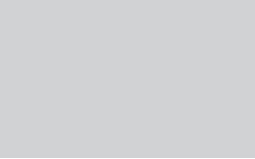| Rectangle	Length	Width	Perimeter
1	cm	cm	cm
2	cm	cm	cm
3	cm	cm	cm

Test Prep

4 Maya made a quilt with pieces like this one.
Measure the length and width of the piece to
the nearest centimeter. What is the perimeter
of the piece?

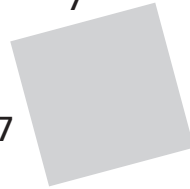**A.** 9 cm   **C.** 18 cm

B. 10 cm   **D.** 20 cm

Connecting Perimeter and Area
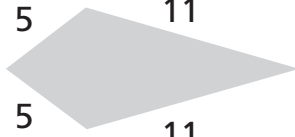
Find the perimeter of each quadrilateral.

1
13
8

rectangle

_____ units

2
20
6

parallelogram

_____ units

3
7
7

square

_____ units

4
6
6

rhombus

_____ units

5
5   11
5   11

quadrilateral

_____ units

6
8
3   4
14

trapezoid

_____ units

7 List the figures with two pairs of parallel sides. ___1___ _____ _____ _____

8 Which figure has exactly one pair of parallel sides? _____

9 List the figures with four equal sides. _____ _____

10 List the figures with four right angles. _____ _____

11 Which figure has four equal sides and four right angles? _____

Test Prep

12 Describe a scalene triangle. _____

13 Describe an isosceles triangle. _____

14 Describe an equilateral triangle. _____