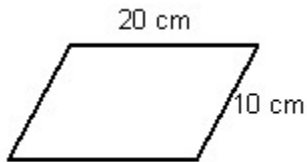


Unit 08 PC Form A

1.  Use pencil and paper to answer the question.

Find the perimeter of the polygon.



Number model: _____

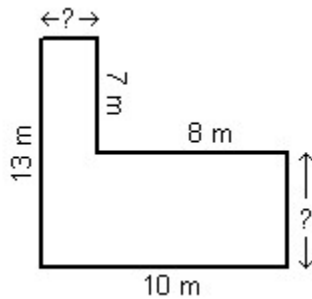
Perimeter = _____ cm

ANSWER: Number model: $20 + 10 + 20 + 10 = 60$

Perimeter = 60 cm

2.  Use pencil and paper to answer the question.

Find the perimeter of the polygon.



Number model: _____

Perimeter = _____ m

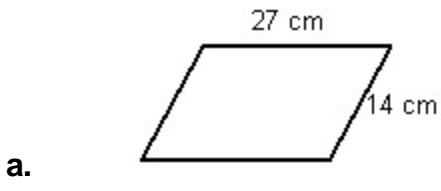
ANSWER: Number model: $10 + 13 + 2 + 7 + 8 + 6 = 46$

Perimeter = 46 m

Unit 08 PC Form A

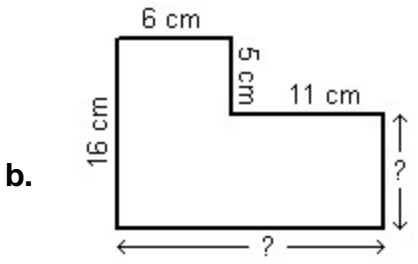
3.  Use pencil and paper to answer the question.

Find the perimeter of each polygon.



Number model:

 Perimeter = _____ cm



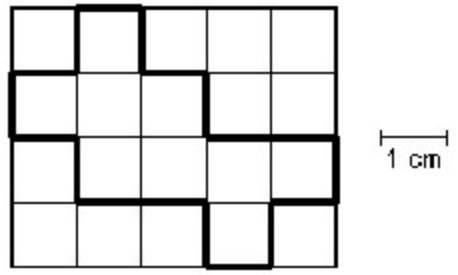
Number model:

 Perimeter = _____ cm

ANSWER:

- a.** Number model: $27 + 14 + 27 + 14 = 82$
 Perimeter = 82 cm
- b.** Number model: $16 + 6 + 5 + 11 + 11 + 17 = 66$
 Perimeter = 66 cm

4. Find the area of the polygon.



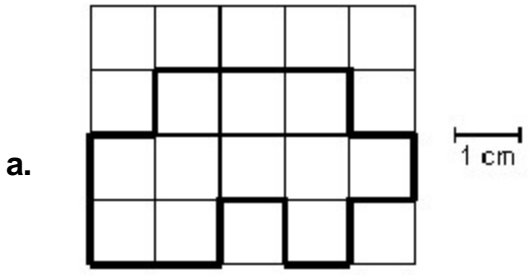
Area = _____ square centimeters

ANSWER: 9

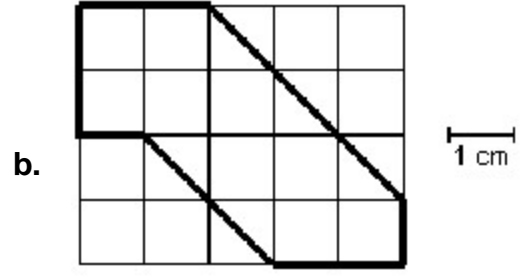
Unit 08 PC Form A

5.  Use pencil and paper to answer the question.

Find the area of each polygon.



Area = _____ square centimeters



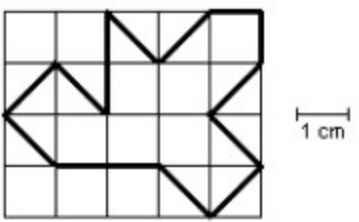
Area = _____ square centimeters

ANSWER:

a. 11

b. $11\frac{1}{2}$

6. Find the area of the polygon.



Area = _____ square centimeters

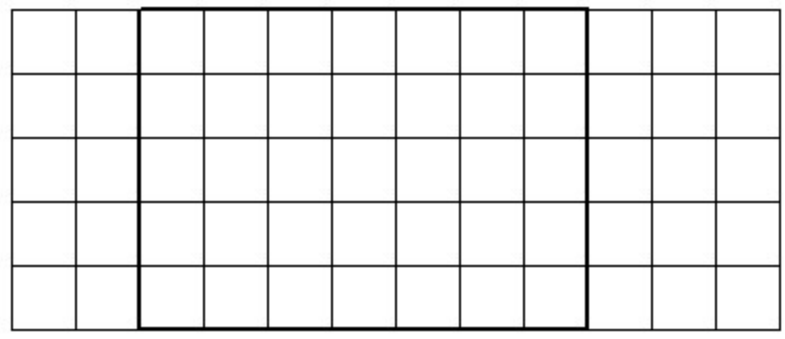
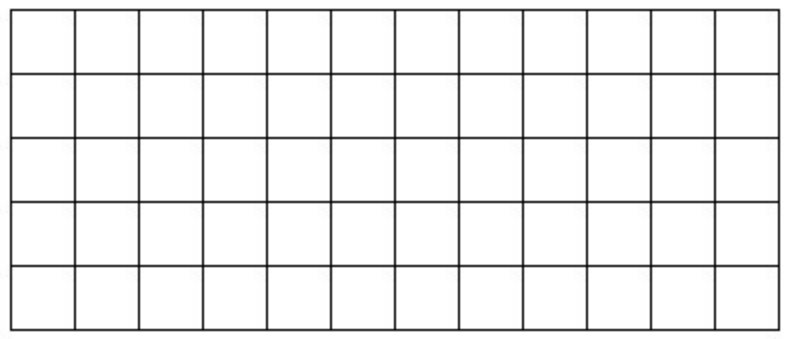
- a. $10\frac{1}{2}$ b. 11 c. 10 d. $9\frac{1}{2}$

ANSWER: a

Unit 08 PC Form A

7.  Use pencil and paper to answer the question.

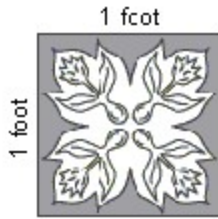
Draw a rectangle with an area of 35 square centimeters and a perimeter of 24 centimeters.



ANSWER:

Unit 08 PC Form A

8. Mrs. Lujan wants to tile her kitchen floor. The room is 8 feet wide and 14 feet long. How many 1-square-foot tiles does she need to cover the floor?

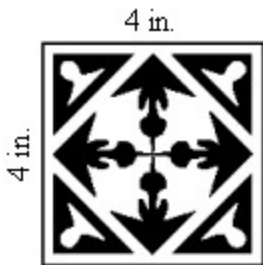


_____ tiles

ANSWER: 112

9.  Use pencil and paper to answer the question.

Mrs. Jackson wants to tile her kitchen floor using tiles that are 4-inches on each side. The room is 9 feet wide and 14 feet long. How many 4-inch tiles does she need to cover the floor?



_____ tiles

Explain the strategy you used to solve the problem.

ANSWER: 1,134 tiles

Sample answer: The area of Mrs. Jackson's kitchen is 126 square feet. Since it takes 9 of the 4-inch tiles to cover 1 square foot, it would take $9 * 126 = 1,134$ tiles to cover the floor.

10. Add.

$$\frac{4}{11} + \frac{2}{11} = \underline{\hspace{2cm}}$$

ANSWER: 6/11

Unit 08 PC Form A

11. Add.

$$\frac{1}{4} + \frac{1}{16} = \underline{\hspace{2cm}}$$

ANSWER: 5/16 or an equivalent fraction

12. Subtract.

$$\frac{9}{12} - \frac{2}{12} = \underline{\hspace{2cm}}$$

ANSWER: 7/12 or an equivalent fraction

13. Subtract.

$$\underline{\hspace{2cm}} = \frac{13}{16} - \frac{1}{4}$$

ANSWER: 9/16 or an equivalent fraction

14.  Use pencil and paper to answer the question.

Add or subtract.

a. $\frac{3}{11} + \frac{3}{11} = \underline{\hspace{2cm}}$

b. $\underline{\hspace{2cm}} = \frac{1}{6} + \frac{1}{3}$

c. $\frac{10}{12} - \frac{1}{12} = \underline{\hspace{2cm}}$

d. $\underline{\hspace{2cm}} = \frac{13}{16} - \frac{1}{4}$

ANSWER:

a. $\frac{6}{11}$

b. $\frac{3}{6}$ or $\frac{1}{2}$

c. $\frac{9}{12}$ or $\frac{3}{4}$

d. $\frac{9}{16}$

Unit 08 PC Form A

15.  Use pencil and paper to answer the question.

Add or subtract.

a. $\frac{1}{5} + \frac{3}{5} =$ _____

b. _____ = $\frac{7}{12} + \frac{1}{3}$

c. $\frac{7}{10} - \frac{2}{10} =$ _____

d. _____ = $\frac{8}{9} - \frac{1}{3}$

ANSWER:

a. $\frac{4}{5}$

b. $\frac{11}{12}$

c. $\frac{5}{10}$ or $\frac{1}{2}$

d. $\frac{5}{9}$

16.  Use pencil and paper to answer the question.

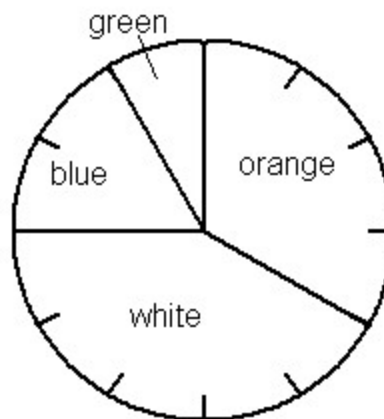
If you spin the spinner 600 times, how many times would you expect it to land

on green? _____

on blue? _____

on orange? _____

on white? _____



ANSWER: In 600 spins the spinner should land

on green 50 times

on blue 100 times

on orange 200 times

on white 250 times

17. A bag contains 5 red blocks, 5 blue blocks, 7 green blocks, and 3 orange blocks. You put your hand in the bag and, without looking, pull out a block. About what fraction of the time would you expect to get a red block?

ANSWER: $\frac{1}{4}$

Unit 08 PC Form A

18.  **Use pencil and paper to answer the question.**

Complete. Measure with a centimeter ruler.



base = _____ cm perimeter = _____ cm
height = _____ cm Area = _____ cm²

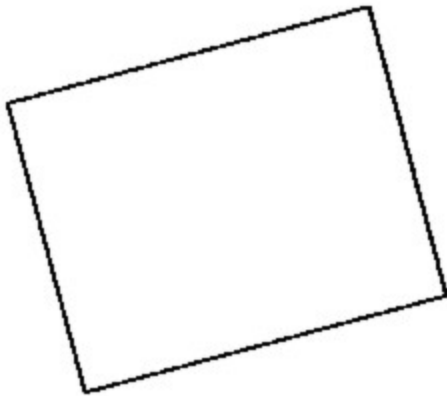
ANSWER: Because of differences in printer scaling, the intended measure may be inaccurate. The intended measures for this rectangle are:

base = 3 cm; height = 2 cm; perimeter = 10 cm; Area = 6 cm².

Measure the printed rectangle to determine the correct measurements based on your local printer settings.

19.  **Use pencil and paper to answer the question.**

Complete. Measure with a centimeter ruler.



base = _____ cm perimeter = _____ cm
height = _____ cm Area = _____ cm²

ANSWER: Because of differences in printer scaling, the intended measure may be inaccurate. The intended measures for this rectangle are:

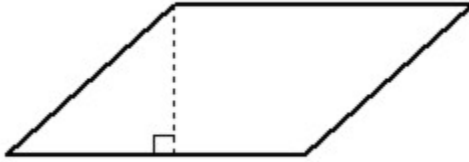
base = 5 cm; height = 4 cm; perimeter = 18 cm; Area = 20 cm².

Measure the printed rectangle to determine the correct measurements based on your local printer settings.

Unit 08 PC Form A

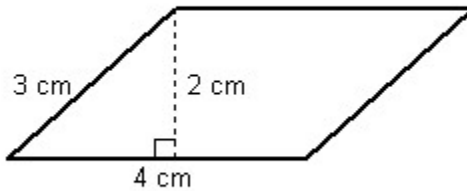
20.  Use pencil and paper to answer the question.

Complete. Measure with a centimeter ruler.



base = _____ cm perimeter = _____ cm
height = _____ cm Area = _____ cm²

ANSWER: The intended measures for this parallelogram are:



base = 4 cm; height = 2 cm; perimeter = 14 cm; Area = 8 cm²

Measure the printed parallelogram to determine the correct measurements based on your local printer settings.

Unit 08 PC Form A

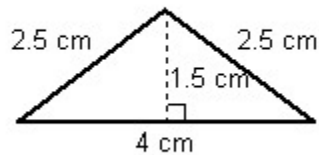
21.  Use pencil and paper to answer the question.

Complete. Measure with a centimeter ruler.



base = _____ cm perimeter = _____ cm
height = _____ cm Area = _____ cm²

ANSWER: The intended measures for this triangle are:



base = 4 cm
height = 1.5 cm
perimeter = 9 cm
Area = 3 cm²

Measure the printed triangle to determine the correct measurements based on your local printer settings.

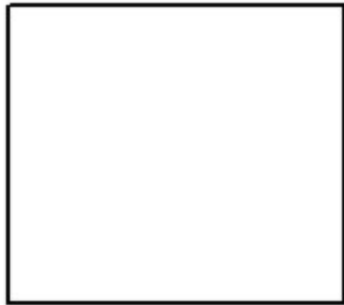
Unit 08 PC Form A

22.  **Use pencil and paper to answer the question.**

Use the scale: 1 cm represents 10 meters.

Make a scale drawing of a rectangle 40 meters by 45 meters.

ANSWER: The rectangle drawn should measure 4 cm by 4.5 cm.



Unit 08 PC Form A

23.  Use pencil and paper to answer the question.

In each problem below, a scale and the lengths of the sides of a rectangle are given. Make a scale drawing of each rectangle.

a. Scale: 1 cm represents 2 meters

Dimensions of rectangle:
4 meters by 11 meters

b. Scale: 1 cm represents 5 meters

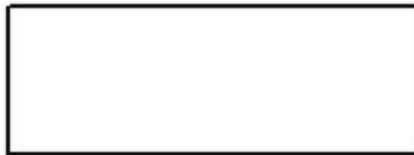
Dimensions of rectangle:
15 meters by 20 meters

ANSWER:

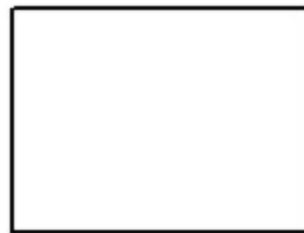
The rectangle drawn should measure
2 cm by 5.5 cm.

The rectangle drawn should measure
3 cm by 4 cm.

a.



b.

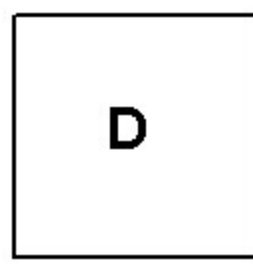
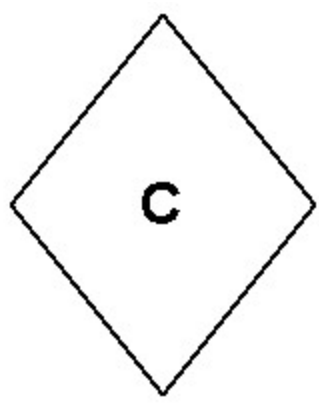
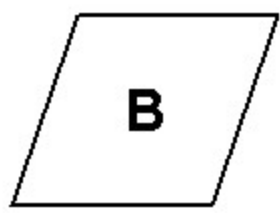
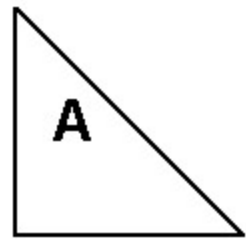


24.  Use pencil and paper to answer the question.

Comparing Areas

Carefully cut out each of the shapes below.

Unit 08 PC Form A



a. Arrange shapes A-D in order of their area. (You may not measure with a ruler). List the letters of the shapes from smallest to largest. If some shapes have the same area, write the letters next to each other and circle them.

b. Explain the steps you followed to figure out the order of each of the shapes. You may draw pictures to illustrate your steps.

Unit 08 PC Form A

c. Compare shapes A and E. Tell which has the larger area. Explain how you compared the shapes.

ANSWER: **a.** A, B, C, D (there should be a circle around C and D). A C and D is the smallest, and are the largest, and A C and D are the largest.

b. It is apparent that A is half of D when they are put on top of each other. C is the same size as D because you can cut C apart and move the pieces of it to make it look like D. No matter how you move the pieces of B they do not cover all of D. No matter how you move the pieces of A they do not cover all of B. So, A is the smallest followed by B and then C and D.

c. A and E have the same area. Cut A into pieces and arrange them until they look like E.