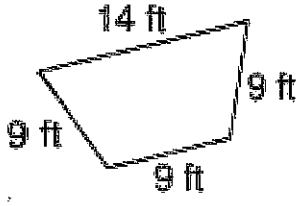
Name Key Hour SHOW ALL WORK.

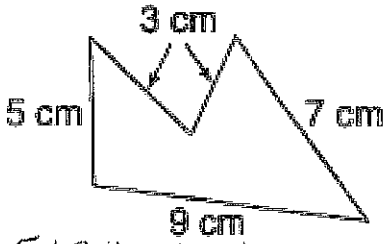
9-7 Perimeter

Find the perimeter of each figure.

1. 

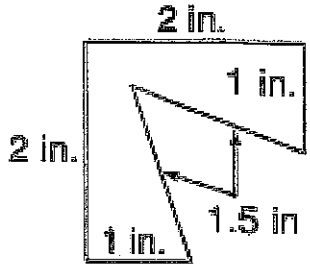
9+9+9+14

41 ft

2. 

5+3+7+9+3

29 cm

3. 

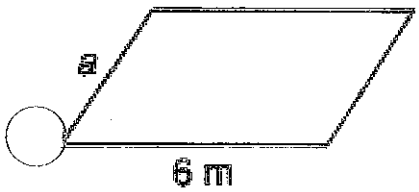
9 in

2+2+1+1.5+1.5+1

9-7 Perimeter (continued)

Find each unknown measure.

4. The perimeter of the parallelogram equals 20 m. What is the length of side *a*?

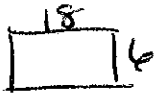


20
−6
14
−6
8

a = 4 m

5. The length of a rectangle is 18 ft. What is the perimeter of the rectangle if the length is equal to 3 times the width?

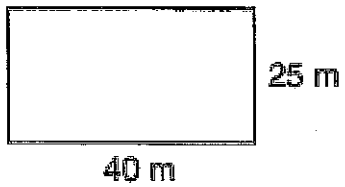
18 ÷ 3 = 6



48 ft

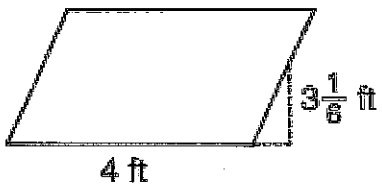
18+18+6+6

Find the area of each figure.

6. 

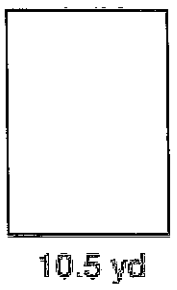
40 · 25

1,000 m²

7. 

4 · 3 1/6

12.6 ft²

8. 

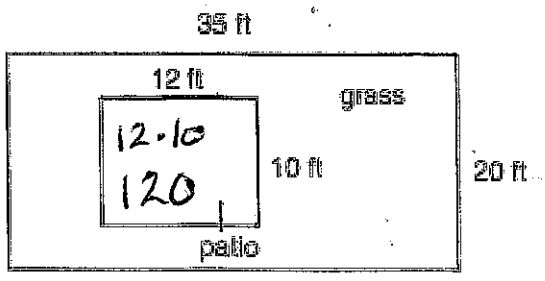
10.5 · 13.2

138.6 yd²

9. Greg has built a rectangular patio in his backyard. The rest of the backyard is covered in grass. What is the area of the backyard that is covered in grass?

580 ft²

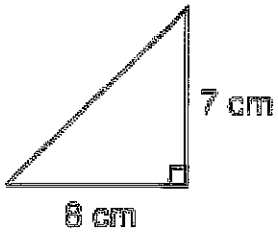
700
−120



20 · 35 = 700

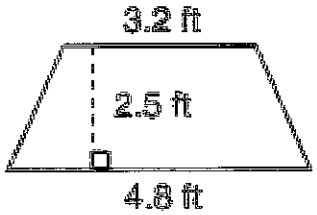
10-2 Area of Triangles and Trapezoids

Find the area of each figure.

10. 

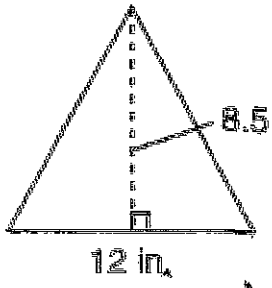
$8 \cdot 7 \div 2$

$28\ cm^2$

11. 

$(3.2+4.8)2.5 \div 2$

$10\ ft^2$

12. 

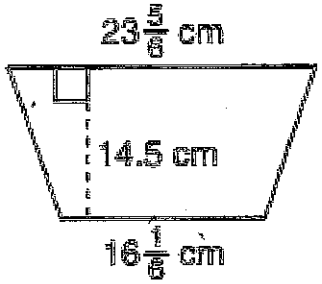
$12 \cdot 8.5 \div 2$

$51\ in^2$

13. 

$8 \cdot 6.5 \div 2$

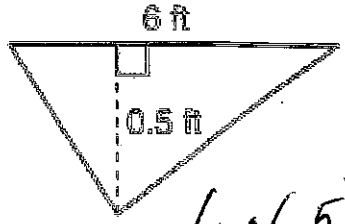
$26\ cm^2$

14. 

$90\ cm^2$

$(23\frac{5}{6}+16\frac{1}{6})$

$40(14.5) \div 2$

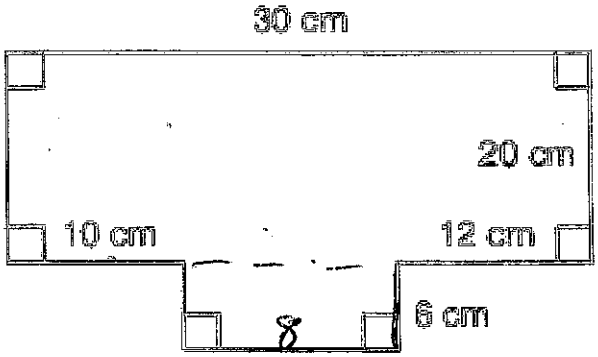
15. 

$6 \cdot (.5) \div 2$

$1.5\ ft^2$

10-3 Area of Composite Figures

16. Find the area of the polygon.

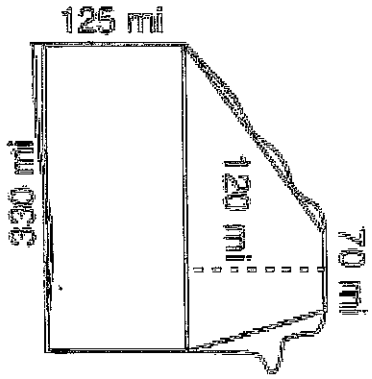


$648\ cm^2$

$30 \cdot 20 = 600$

$6 \cdot 8 = 48$

17. Estimate the area of the state of Georgia.



$65,250\ mi^2$

$330 \cdot 125 = 41,250$

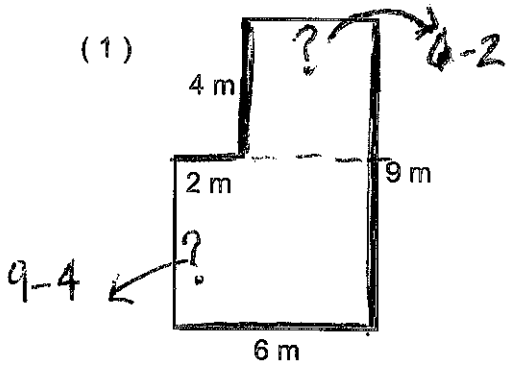
$(70+330)120 \div 2 = 24,000$

Calculating Area & Perimeter

Name: _____ Date: _____

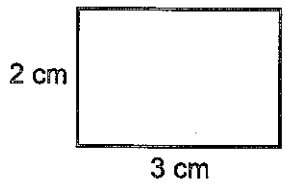
Calculate the area and perimeter of each shape. Show all work

(1)



Perimeter: 30 m
6+9+4+2+4+5
Area: 46 m²
4.4=16 6.5=30

(2)

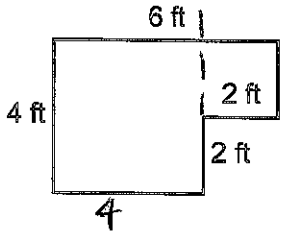


3+3+2+2
Perimeter: 10 m
Area: 6 cm
3.2

(3)

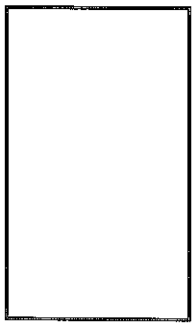
9+9+4+4
Perimeter: 26 m
Area: 36 m²
9.4

(4)



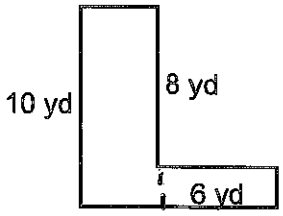
4+4+6+2+2+2
Perimeter: 20 ft
Area: 20 ft²
4.4=16 2.2=4

(5)



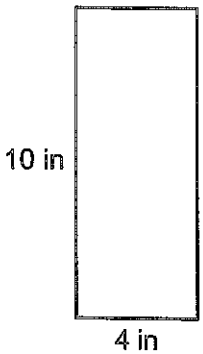
10+10+
6+6
Perimeter: 32 in
Area: 60 in²
10.6=60

(6)



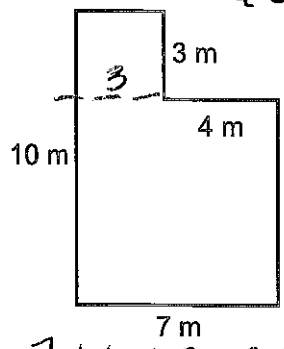
6+10+10+2+8+4
Perimeter: 40 yd
Area: 52 yd²
6.2=12 10.4=40

(7)



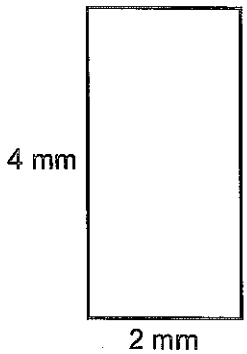
10+10+
4+4
Perimeter: 28 in
Area: 40 in²
10.4

(8)



7+10+3+3+4+7
Perimeter: 34 m
Area: 58 m²
3.3=9 7.7=49

(9)



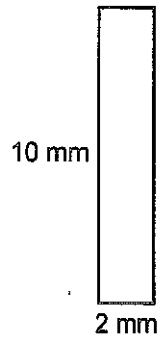
4+4+2+2
Perimeter: 12 mm
Area: 8 mm²
4.2

Calculating Area & Perimeter

Name: _____ Date: _____

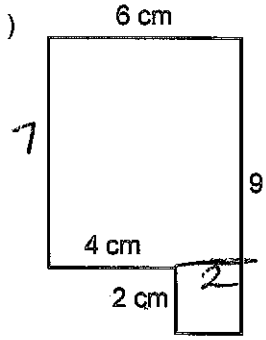
Calculate the area and perimeter of each shape. Show work.

(1)



Perimeter: 24 mm
10+10+2+2
Area: 20 mm²
10 x 2

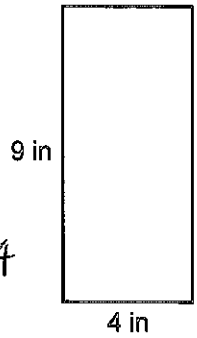
(2)



7+6+9+2+2+4

Perimeter: 30 cm
Area: 46 cm²
6·7=42

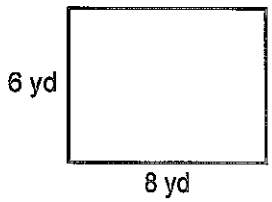
(3)



9+9+4+4

Perimeter: 26 in
Area: 36 in²
9·4

(4)

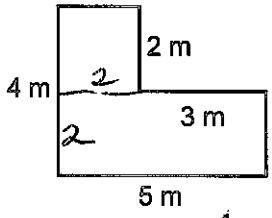


6+6+8+8

Perimeter: 28 yd
Area: 48 yd²
6·8

(5)

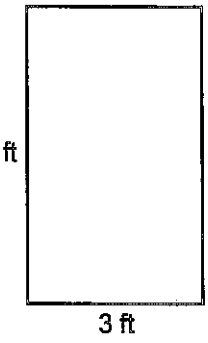
2·2=4



2+4+5+2+3+2

Perimeter: 18 m
Area: 14 m²
5·2=10 2·2=4

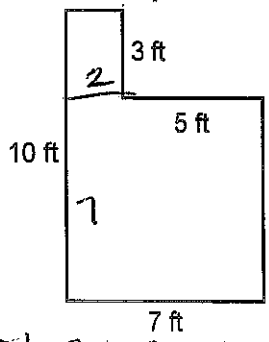
(6)



5+5+3+3

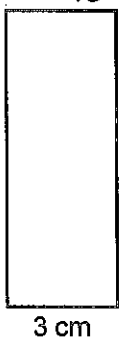
Perimeter: 16 ft
Area: 15 ft²
3·5

(7)



10+2+3+5+7+7
Perimeter: 34 ft
Area: 55 ft²
7·7=49
3·2=6

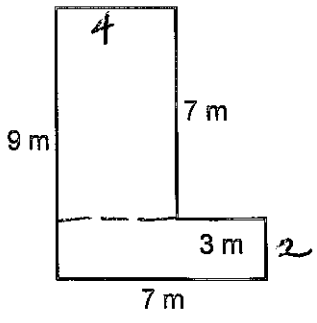
(8)



8+8+3+3

Perimeter: 22 cm
Area: 24 cm²
8·3

(9)



Perimeter: 32 m
Area: 42 m²
7·4=28 7·2=14

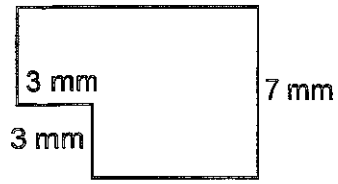
9+7+4+7+3+2

Questions About Area & Perimeter

Name: _____ **Date:** _____

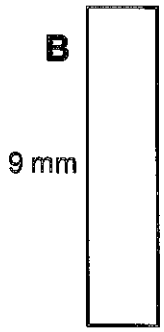
Answer the questions about these six shapes. Show work.

A



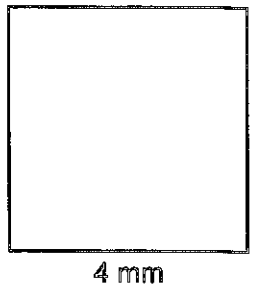
A = 61 mm² P = 34mm

B



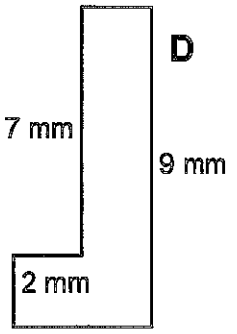
A = 18 mm²
P = 22mm

C



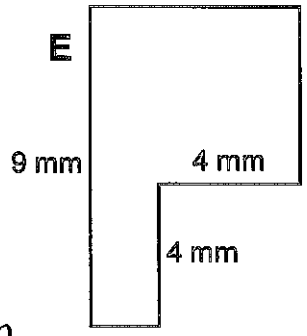
A = 16mm²
P = 16mm

D



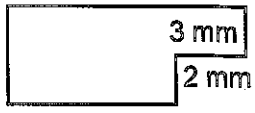
A = 22mm² P = 26mm

E



A = 38 mm²
P = 30mm

F



A = 34mm²
P = 28mm

(1) Which shape has an area 20 mm² less than shape E? B

(2) How much greater is the area of shape A than shape D? 39 mm²

(3) Which shape has a perimeter 6 mm less than shape B? C

(4) Which shapes have a perimeter greater than the perimeter of shape E? A

(5) Which shapes have an area greater than the area of shape D? A, E, F

(6) Which shape has an area 6 mm² greater than shape C? D

(7) How much greater is the perimeter of shape E than shape D? 4mm

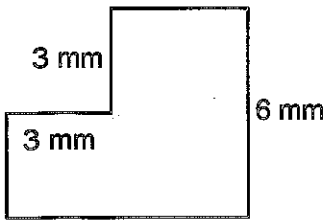
(8) Which shapes have an area less than the area of shape E? B, C, D, F

Questions About Area & Perimeter

Name: _____ **Date:** _____

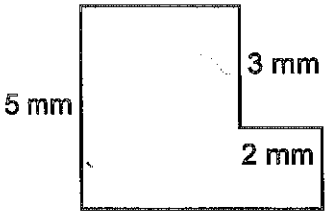
Answer the questions about these six shapes. Show work.

A $A = 33\text{mm}^2$



$P = 26\text{mm}$

B $A = 24\text{mm}^2$

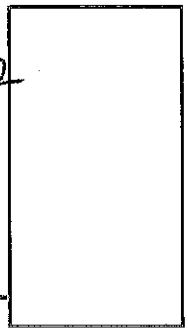


$P = 22\text{mm}$

C $A = 20\text{mm}^2$

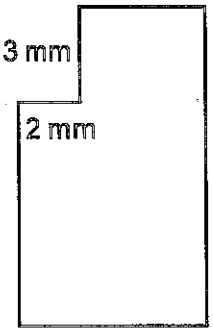
$P = 18\text{mm}$

D $A = 45\text{mm}^2$

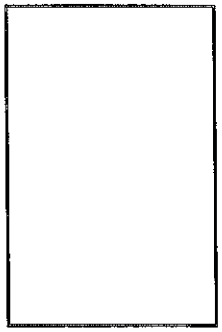


$P = 28\text{mm}$

E $A = 54\text{mm}^2$



$P = 32\text{mm}$



$A = 6\text{mm}^2$

$P = 10\text{mm}$

(1) What are the areas of shape C and shape D combined? 65mm^2

(2) How much greater is the area of shape B than shape F? 18mm^2

(3) What are the perimeters of shape C and shape F combined? 28mm

(4) Which shape has an area 9 mm^2 greater than shape D? E

(5) How much greater is the perimeter of shape E than shape A? 6mm

(6) Which shapes have an area less than the area of shape D? A, B, C, F

(7) Which shape has a perimeter 16 mm greater than shape F? A

(8) What is the area of shape D? 45mm^2