Name Key Period _____ March 7, 2018

Geometry & Measurement Test Review

1 Macy had a toy chest in her room. It was 2 feet tall, 5 feet long and 3 feet wide. Which expression below shows how to correctly find the volume of her toy chest?

A V = 5 ft x 2 ft

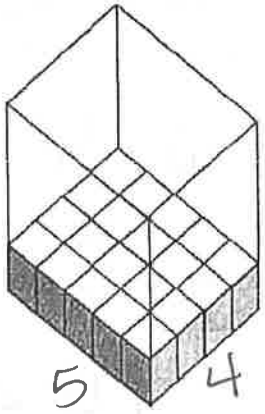
B V = 5 ft x 5 ft x 5 ft

C V = 3 ft x 5 ft x 2 ft

D V = 2 ft x 3 ft x 3 ft

V = L x w x h

2 The picture below shows the base layer of a box that has a volume of 120 cubic units. If 20 square units make up the base layer, how many layers would it take to fill the box?



= 20

F 6 layers

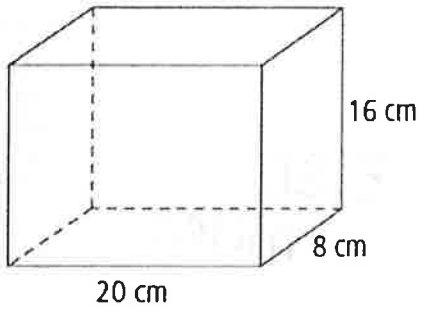
G 5 layers

H 20 layers

J 400 layers

V = Bh
120 = 20(h)
h = 6

3 What is the volume of the rectangular prism shown below?



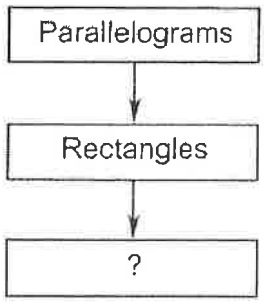
20
x 8
160

160
x 16
256

V = L x w x h
20 x 8 x 16

Volume: 256 cm³

4 Which word correctly completes the chart below?



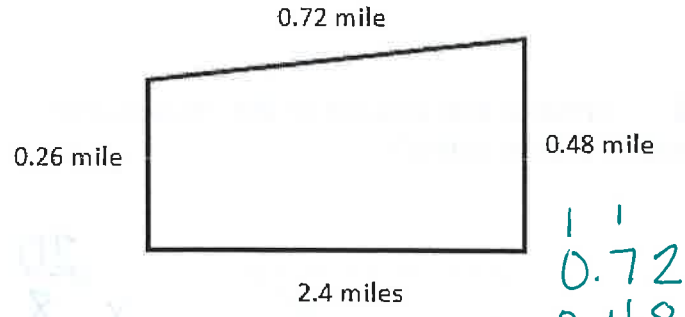
A Rhombuses

B Squares

C Trapezoids

D Triangles

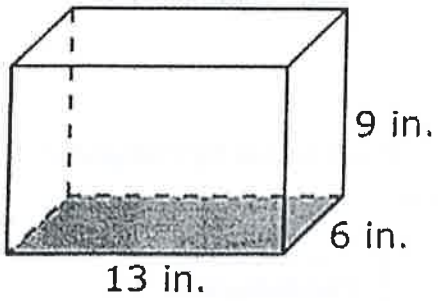
5 The side lengths of a field are shown below. What is the perimeter of the field?



1 1
0.72
0.48
2.40
+ 0.26
3.86

Perimeter: 3.86 miles

6 A clear file box shaped like a rectangular prism is modeled below. The shaded part represents one base of the box.



A formula for finding the volume of a rectangular prism is $V = Bh$. Which equation can be used to find B, the area of the shaded base of the box in square inches?

F B = 13 + 6 V=Bh

G B = 2(13) + 2(6) B=LxW

H B = $\frac{1}{2}$(13)(6) 78 = 13x6

J B = (13)(6)

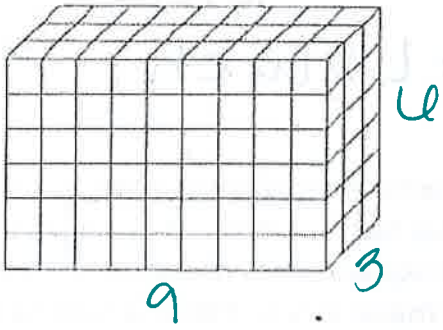
7 Jessica sold 128 cups of lemonade at her lemonade stand last summer. How many quarts are in 128 cups?

C		pt
2	÷2	1
128	÷2	64

pt		qt
2	÷2	1
64	÷2	32

32 quarts

8 How many unit cubes are in the rectangular prism below?



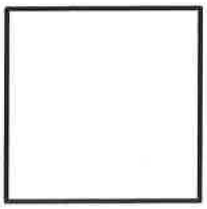
Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

V = L x W x h
9 x 3 x 6
27 x 6

27
x 6
162

1	6	2	.	
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

9 The side length of a square is 32 inches. Which statement about this square is true?



F The area of the square is 64 square inches, because 32 x 2 = 64

G The area of the square is 1,024 square inches, because 32 x 32 = 1,024

H The perimeter of the square is 64 square inches, because 32 x 2 = 64

J The perimeter of the square is 160 square inches, because 32 x 4 = 160

32 x 4 = 128

10 Which of the following would NOT require finding the area?

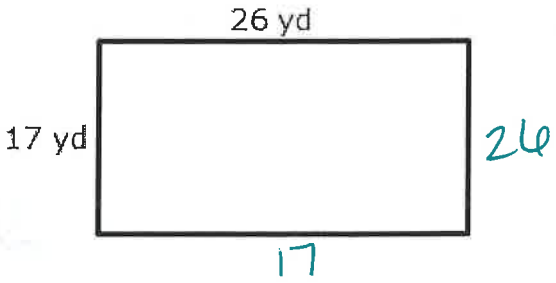
A Determining the amount paper needed to cover a bulletin board

B Determining the amount of paint on a wall

C Determining the amount of carpet on a floor

D Determining the amount of space inside of a locker (volume)

11 Find the area and the perimeter of the rectangles below.



Formula: A = L x W ; P = 2L + 2W

P = 86 yds

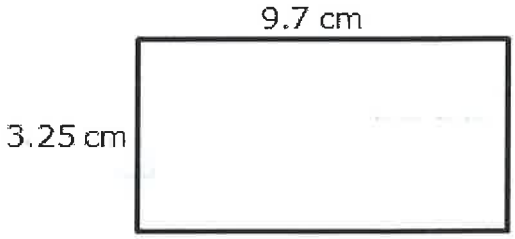
A = 442 yds²

26 x 17 = 442

26 x 2 = 52

17 x 2 = 34

52 + 34 = 86



Formula: A = L x W ; P = 2L + 2W

P = 25.9 cm

A = 31.53 cm²

3.25 (2) x 9.7 (1) = 31.525 = 31.53

3.25 x 2 = 6.5

9.7 x 2 = 19.4

19.4 + 6.5 = 25.9

12 A square has a perimeter of 12 inches and an area of 9 square inches. Use the ruler provided to measure the line segment below to the nearest inches. Which line segment could represent a side of this square?

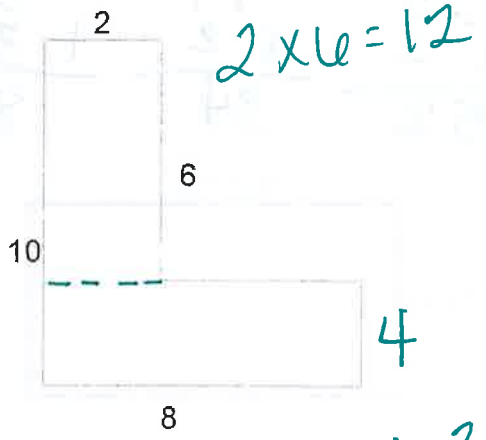
F _____

G _____ 2.5in

H _____

J _____

13 Separate the figure into two rectangles to find the area of the figure.



2 x 6 = 12

8 x 4 = 32

A 32 square units

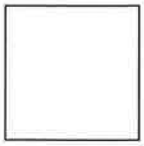
B 80 square units

C 52 square units

D 20 square units

44 sq units

14 Find the area and perimeter of the squares below.



8 x 4 = 32

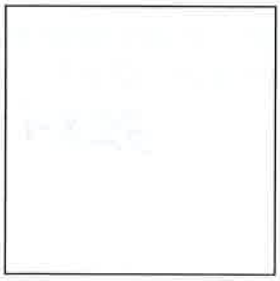
Formula: A = S x S ; P = 4S

P = 32 in

A = 64 in²

8 x 8 = 64

14
x 4
56



14 x 4 = 56

Formula: A = S x S ; P = 4S

P = 56 in

A = 196 in²

14 x 14 = 196

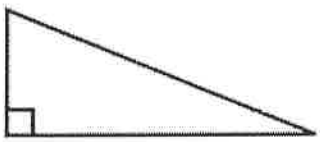
14
x14
56
+ 140
196

15 Write the words from the word list in the correct circle of the graphic organizer.

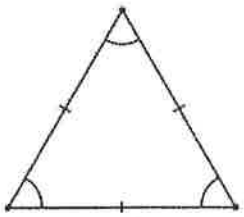
Congruent Sides	Sides Are Not All Congruent
Square regular pentagon rhombus	Scalene triangle irregular hexagon

Word List: square, scalene triangle, rhombus, regular pentagon, irregular hexagon

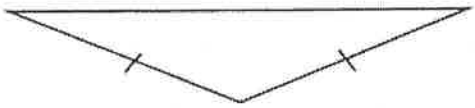
16 Classify the triangles by its sides (equilateral, isosceles, or scalene) and by its angles (right, acute, or obtuse).



Scalene
right



equilateral
acute



isosceles
obtuse

18 The lengths of two dogs are given below.

- Golden Shepard: 4 feet = 48 inches
- Miniature Yorkie: 10 inches

What is the difference in the length of these two dogs in inches?

(-)
48
- 10
38

ft		in
1	x12	12
4	x12	48

12
x 4
48

A 7 inches

B 38 inches

C 48 inches

D 14 inches

19 Which of the following could **NOT** be classified as a parallelogram?

A rhombus

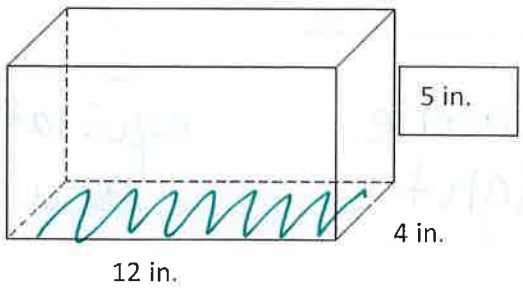
B trapezoid

C rectangle

D square

20 Mrs. Kennedy has a Kleenex box on her desk shaped like a rectangular prism with the dimensions shown in the model.

What is the **area,** in square inches, of the **shaded bottom** of the Kleenex box?



A 32 square inches

B 16 square inches

C 240 square inches

D 48 square inches

12
x 4
48 in^2