



Name _____ Class _____ Date _____

1 The perimeter of a square is **4 units**. If another square is added on to the square, the perimeter is **6 units**. What would be the **perimeter** of a figure that has **5 squares** in a line together?

- A 12 units
- B 15 units
- C 18 units
- D 20 units

2 The sequence, **1, 4, 9, 16...** represents the area of a figure with the same base and height. If this sequence continues, what would be the **area** of a figure with a base and height of **14**?

- A 142
- B 151
- C 169
- D 196

3 The sequence **6, 12, 24, 48...** represents the perimeter of shapes in which the sides are doubled. If the **first shape** has a length of **1 in.** and a width of **2 in.**, what would be the **perimeter** of a shape with a length of **32 in.** and a height of **64 in.**?

4 A hardware store is having a paint sale. A smaller version of the display is shown. If the display has **8 rows**, how many cans of paint are used to make the display?

- A 28
- B 36



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- A 21
- B 24
- C 28
- D 32



the sequence?

- A 89
- B 94
- C 96
- D 104

9 A quadrilateral can be divided into **two** triangles. The number of triangles a polygon can be divided into **increases by one** with every side of the polygon that increases. How many triangles can be made from a **heptagon**?

- A 4
- B 5
- C 6
- D 7

10 The sequence, **60, 90, 108, 120...** is used to represent the number of degrees in **each angle** of a regular polygon with **3, 4, 5, 6...** sides. What is the **measure of each angle** of a regular decagon?

- A 135°
- B 140°
- C 144°
- D 180°



ANSWER KEY

The perimeter of a square is **4 units**.
If another square is added on to the square, the perimeter is **6 units**.
What would be the **perimeter** of a figure that has **5 squares** in a line together?

(a)

- A** 12 units **C** 18 units
B 15 units **D** 20 units

The sequence, **1, 4, 9, 16...** represents the area of a figure with the same base and height. If this sequence continues, what would be the **area** of a figure with a base and height of **14**?

(d)

- A** 142 **C** 169
B 151 **D** 196

The sequence **6, 12, 24, 48...** represents the perimeter of shapes in which the sides are doubled. If the first shape has a length of **1 in.** and a width of **2 in.**, what would be the **perimeter** of a shape with a length of **32 in.** and a height of **64 in.**?

(b)

- A** 384 in. **C** 144 in.
B 192 in. **D** 72 in.

A hardware store is having a paint sale. A smaller version of the display is shown. If the display has **8 rows**, how many cans of paint are used to make the display?

(b)

- A** 28
B 36
C 44
D 56



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- A** 21
B 24
C 28
D 32



- A** 89 **C** 96
B 94 **D** 104

A quadrilateral can be divided into **two** triangles. The number of triangles a polygon can be divided into **increases by one** with every side of the polygon that increases. How many triangles can be made from a **heptagon**?

(b)

- A** 4 **C** 6
B 5 **D** 7

The sequence, **60, 90, 108, 120...** is used to represent the number of degrees in **each angle** of a regular polygon with **3, 4, 5, 6...** sides. What is the measure of each angle of a regular decagon?

(c)

- A** 135° **C** 144°
B 140° **D** 180°