



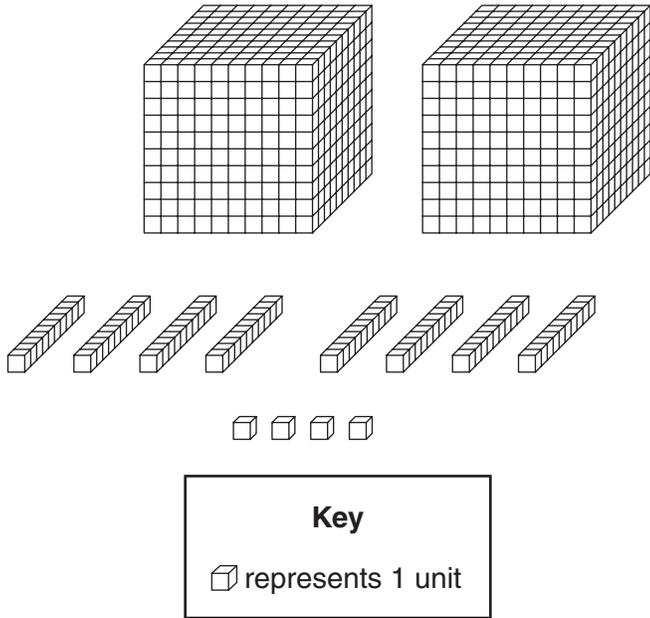
**NEW ENGLAND
COMMON ASSESSMENT PROGRAM**

**Released Items
2005**

**Grade 5
Mathematics**

Mathematics

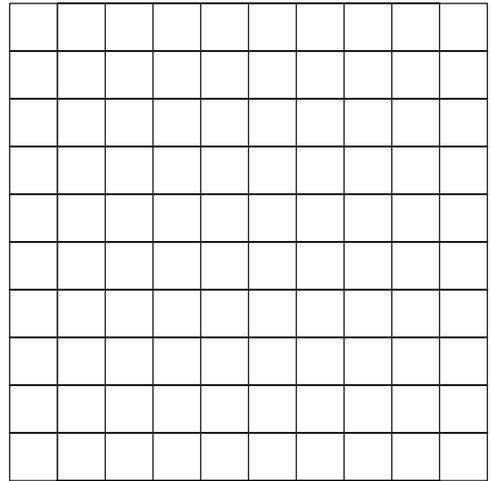
1 Look at these blocks.



What number do the blocks represent?

- A. 284
- B. 2084
- C. 2804
- D. 2840

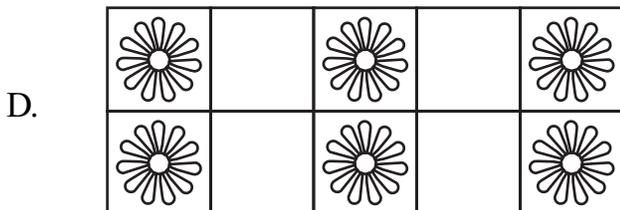
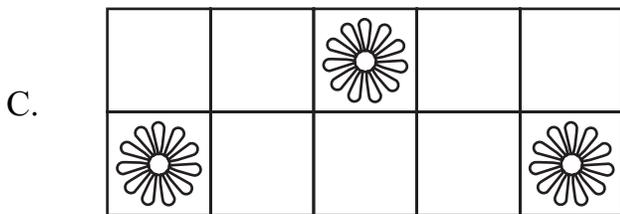
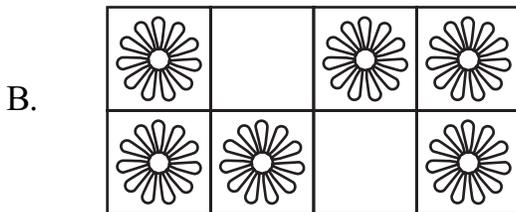
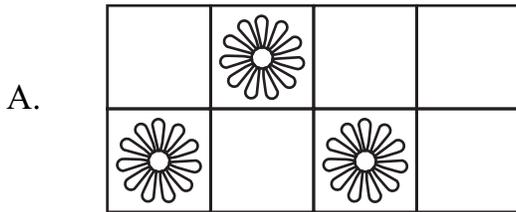
2 The grid below represents one dollar.



How many □ represent 6 dimes?

- A. 66
- B. 60
- C. 16
- D. 6

- 3 In which design do $\frac{3}{5}$ of the tiles have a picture of a flower?



- 4 The students at Maple Grove School are selling flowers. Their goal is to sell 1500 flowers.

- On the first day, the students sold 547 flowers.
- On the second day, the students sold 655 flowers.

How many flowers must the students sell on the third day to meet their goal?

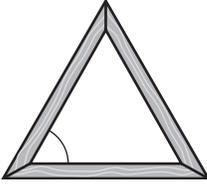
- A. 298
 B. 308
 C. 1202
 D. 2702

- 5 The typical wingspan of a snowy owl is 4.8 feet. The typical wingspan of a bald eagle is 6.7 feet. How much longer is the typical wingspan of a bald eagle than the typical wingspan of a snowy owl?

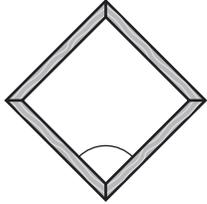
- A. 10.5 feet
 B. 2.9 feet
 C. 2.1 feet
 D. 1.9 feet

6 Mr. Hanson makes frames. In which frame is the identified angle more than 90° ?

A.



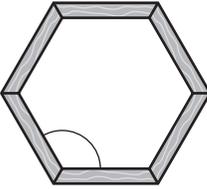
B.



C.

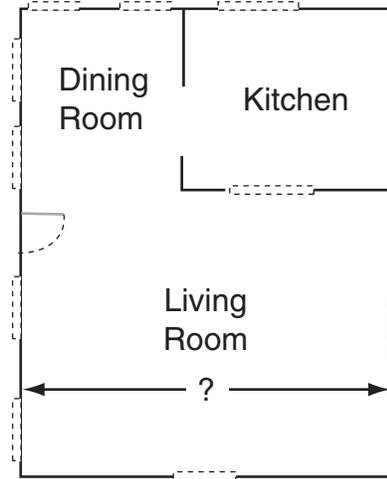


D.



7 Use your ruler to answer this question. The picture below shows the floor plan of part of a house.

Floor Plan



Scale

1 cm represents 4 ft

What is the width of the living room?

- A. 9 feet
- B. 14 feet
- C. 20 feet
- D. 25 feet

8 Look at this pattern.

5, 6, 8, 11, 15, 20, __, __

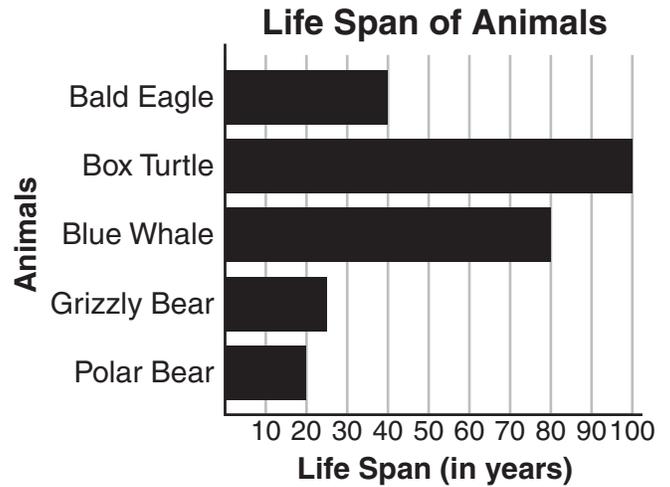
What are the next two numbers in the pattern?

- A. 25, 30
- B. 25, 31
- C. 26, 32
- D. 26, 33

9 Mr. Farrell uses the expression $50 \times n$ to calculate the weight (in pounds) of n crates. How much would 20 crates weigh?

- A. 70 pounds
- B. 100 pounds
- C. 700 pounds
- D. 1000 pounds

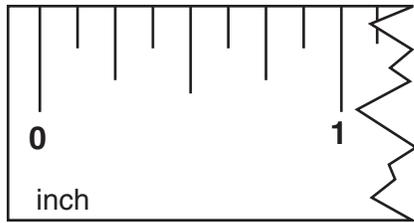
10 The bar graph below shows the average life span of some animals.



Which animal has an average life span that is five times longer than the average life span of a polar bear?

- A. bald eagle
- B. box turtle
- C. blue whale
- D. grizzly bear

- 11 Part of a ruler is shown below.

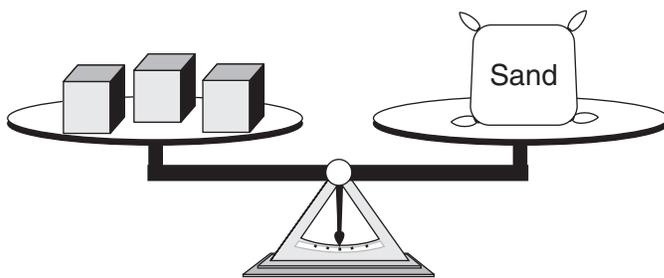


Rachel is making a bead necklace. The table below shows the width of the two types of beads Rachel is using.

Type of Bead	Width of Each Bead
Round	$\frac{2}{8}$ inch
Square	$\frac{3}{8}$ inch

What is the width of 2 round beads and 1 square bead placed side by side?

- 12 The scale shown below is balanced.



The bag of sand weighs 18 pounds. Each of the cubes has the same weight. How many pounds does one cube weigh?

13 Sue made up these clues for her mystery number.

- The mystery number is a multiple of both 3 and 4.
- The mystery number is greater than 20 and less than 30.

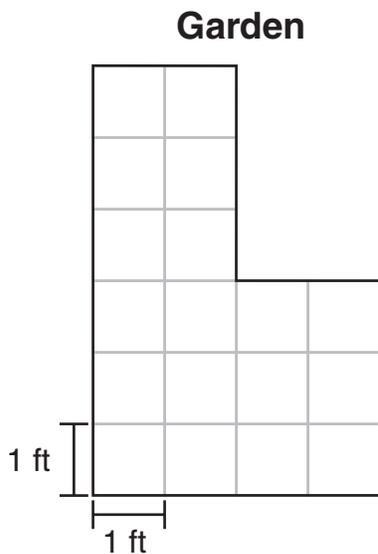
What is Sue's mystery number? Show your work or explain how you know.

14 Mona has 5 dogs.

- The oldest dog is 10 years old.
- The median age of the dogs is 6 years.
- The mode of the dogs' ages is 2 years.

Give one possible list of the ages of Mona's dogs from the youngest to the oldest.

- 15 The picture below shows the shape of a garden.



- What is the perimeter of the garden? Label your answer with the correct unit of measure.
- What is the area of the garden? Label your answer with the correct unit of measure.
- What is the perimeter of a rectangle that has the same area as the garden? Show your work or explain how you know. Label your answer with the correct unit of measure.

Grade 5 Mathematics Released Item Information

Released Item Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Calculator Allowed	✓	✓	✓			✓	✓	✓	✓	✓				✓	✓
Content Strand ¹	NO	NO	NO	NO	NO	GM	GM	FA	FA	DP	NO	FA	NO	DP	GM
GLE Code	4-1	4-1	4-2	4-4	4-4	4-1	4-5	4-1	4-3	4-1	4-3	4-4	4-4	4-2	4-6
Depth of Knowledge Code	2	2	2	2	1	1	1	2	1	2	2	1	2	3	2
Item Type ²	MC	SA	SA	SA	SA	CR									
Answer Key	B	B	D	A	D	D	C	D	D	B					
Total Possible Points	1	1	1	1	1	1	1	1	1	1	1	1	2	2	4

¹Content Strand: NO = Numbers & Operations, GM = Geometry & Measurement, FA = Functions & Algebra, DP = Data, Statistics, & Probability

²Item Type: MC = Multiple-Choice, SA = Short Answer, CR = Constructed Response