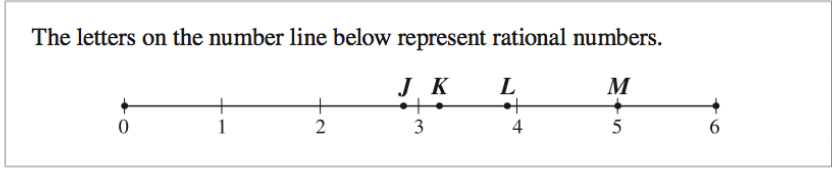
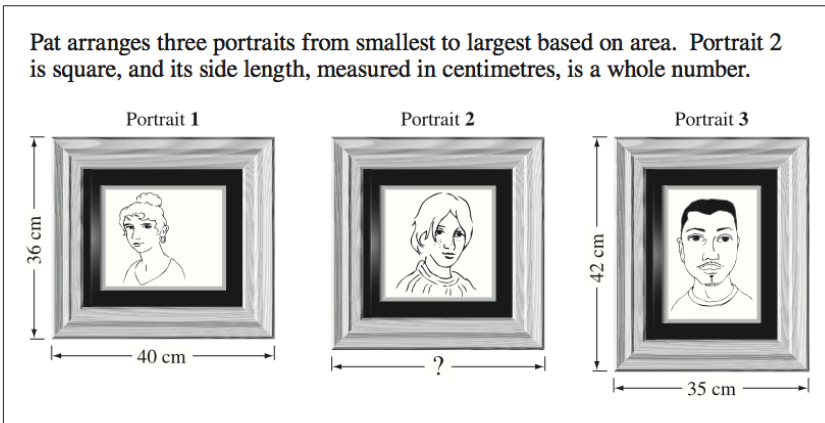


Use the following information to answer question 1.



1. The approximate value of  $\sqrt{15}$  is represented by the letter
  - A. J
  - B. K
  - C. L
  - D. M
  
22. In estimating  $\sqrt{70}$ , which two perfect square numbers provide the **best** two benchmarks to estimate your answer?
  - A. 49 and 64
  - B. 64 and 100
  - C. 49 and 81
  - D. 64 and 81

Use the following information to answer numerical-response question 6.



**Numerical Response**

6. The side length of portrait 2 is \_\_\_\_\_ cm.  
 (Record your answer in the numerical-response section on the answer sheet.)

Use the following information to answer question 1.

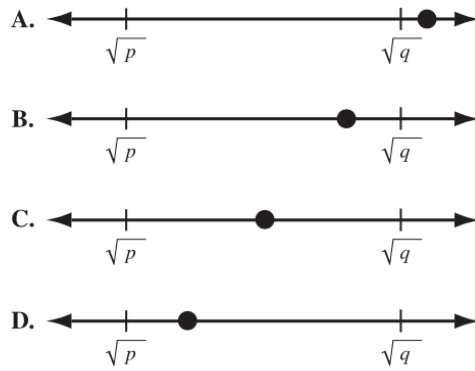
$$\sqrt{51} \quad \sqrt{55} \quad \sqrt{61} \quad \sqrt{66} \quad \sqrt{71} \quad \sqrt{77} \quad \sqrt{81} \quad \sqrt{88}$$

1. How many of the square roots shown above have a value that is between 7.8 and 8.8?
- A. 2
  - B. 3
  - C. 4
  - D. 5

Use the following information to answer question 3.

The letters  $p$  and  $q$  in the expression  $\sqrt{\frac{p+q}{2}}$  represent consecutive perfect square numbers.

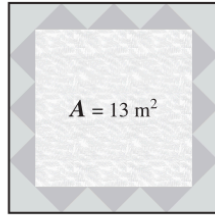
3. Which of the following number lines **best** represents the value of  $\sqrt{\frac{p+q}{2}}$ ?



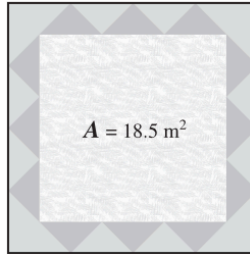
Use the following information to answer question 12.

The area,  $A$ , of four square carpets is shown below.

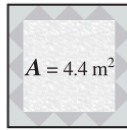
Carpet 1



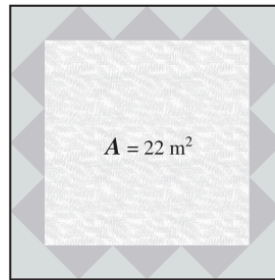
Carpet 2



Carpet 3

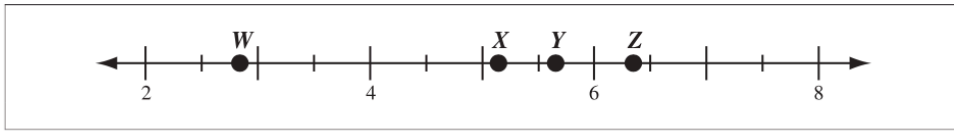


Carpet 4



12. Which carpet will cover the most floor area, without touching a wall, when it is laid flat in a square room that has a width of 4.5 m?
- A. Carpet 1
  - B. Carpet 2
  - C. Carpet 3
  - D. Carpet 4

Use the following information to answer numerical-response question 6.



**Numerical Response**

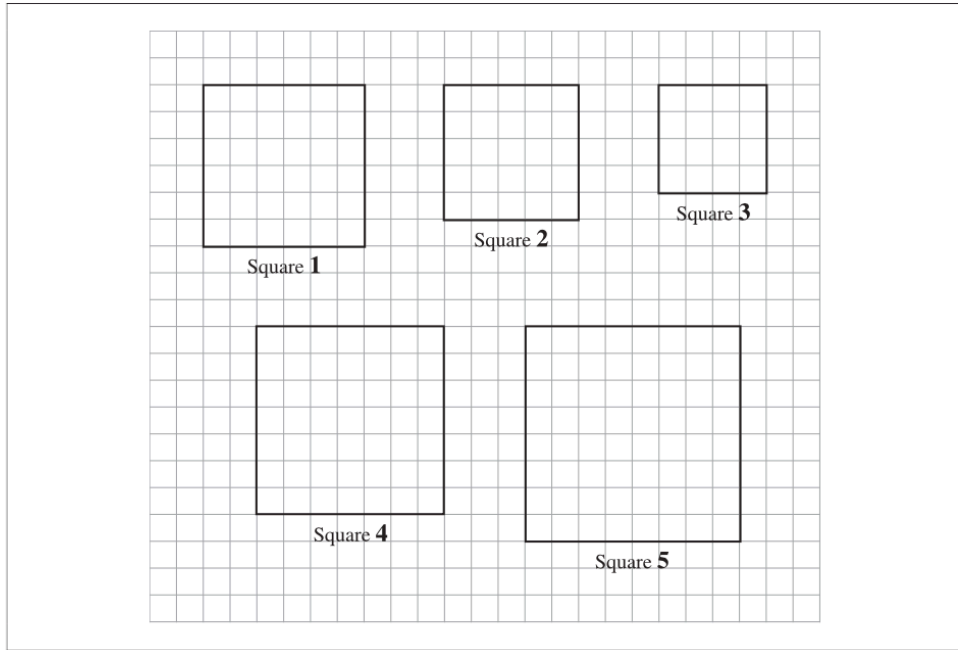
6. Match each point on the number line above to the corresponding number in the table below.

Code	Number
1	$\sqrt{37}$
2	$\sqrt{8}$
3	$\sqrt{22}$
4	$\sqrt{41}$
5	$\sqrt{6}$
6	$\sqrt{50}$
7	$\sqrt{27}$
8	$\sqrt{32}$

Code: \_\_\_\_\_  
 Point:                      
           W          X          Y          Z

(Record all **four digits** of your answer in the numerical-response section on the answer sheet.)

Use the following information to answer numerical-response question 10.



**Numerical Response**

- 10.** Which two squares shown above represent the **best** benchmarks for estimating the value of  $\sqrt{43}$ ?

**Answer:** Square \_\_\_\_\_ and Square \_\_\_\_\_

(Record **both digits** of your answer **in any order** in the numerical-response section on the answer sheet.)