Number 5　　　　　　　　Name:_____

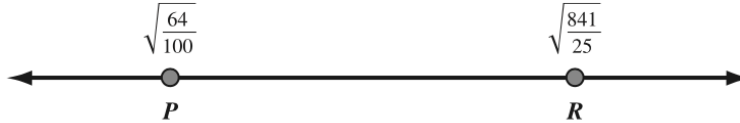**10.** The number of perfect squares that are whole numbers between 2 and 20 is _____.

(Record your answer in the numerical-response section on the answer sheet.)

Use the following information to answer question 15.

The square roots of two rational numbers are represented on the number line shown below.
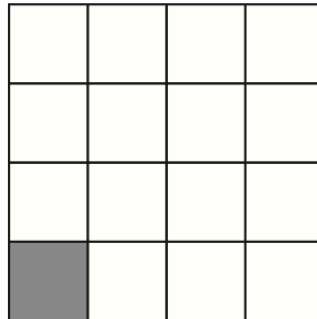

15. If Q is located between points P and R on the number line above, then which of the following square roots could **not** represent Q?

A. $\sqrt{\dfrac{324}{81}}$

B. $\sqrt{\dfrac{256}{9}}$

C. $\sqrt{\dfrac{225}{64}}$

D. $\sqrt{\dfrac{169}{4}}$

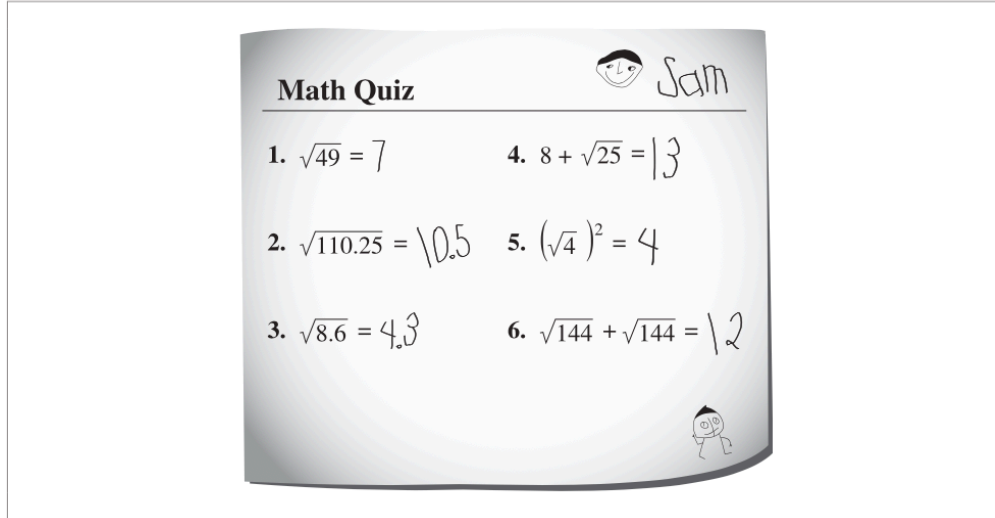*Use the following information to answer numerical-response question 7.*

The squares of the grid below are identical. The area of the shaded square on the grid is 9 units^2.

Numerical Response

7. The perimeter of the grid shown above is _____ units.

(Record your answer in the numerical-response section on the answer sheet.)

Math Quiz 😊 Sam

1. $\sqrt{49}$ = 7

4. $8 + \sqrt{25}$ = 13

2. $\sqrt{110.25}$ = 10.5

5. $\left(\sqrt{4}\right)^2$ = 4

3. $\sqrt{8.6}$ = 4.3

6. $\sqrt{144} + \sqrt{144}$ = 12

13. What percentage of the questions did Sam answer correctly?

 A. 33%
 B. 50%
 C. 67%
 D. 83%

The design shown below is created by four squares with areas of 576 cm², 400 cm², 324 cm², and 196 cm².
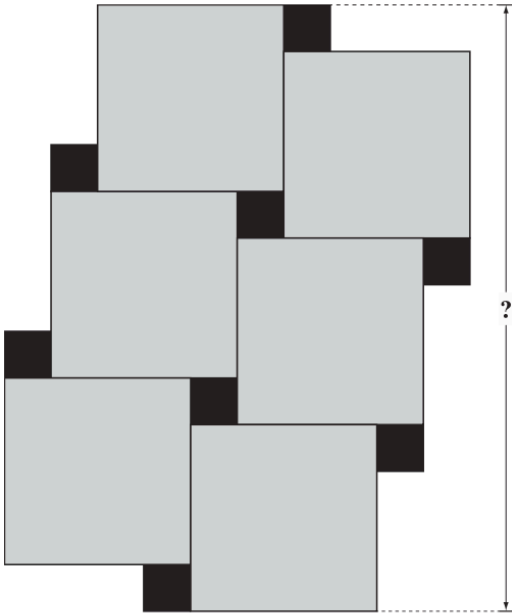
34. What is the perimeter of the design shown above?

 A. 144 cm
 B. 152 cm
 C. 164 cm
 D. 176 cm

Jack has a large, square section of land with an area of 160 000 m². A small, square section is fenced off to create a pasture for his goats. The length of one side of the small section of land is one-eighth of the length of one side of the large section of land.

29. What is the perimeter of the fence that encloses the small, square section of land?

    A. 160 m

    B. 200 m

    C. 400 m

    D. 566 m

Use the following information to answer question 18.

Each grey square in the design below has an area of 77.44 cm², and each black square has an area of 4.84 cm².

18. To the nearest tenth of a centimetre, what is the height of the design shown above?

    A. 28.6 cm

    B. 33.0 cm

    C. 35.2 cm

    D. 59.3 cm