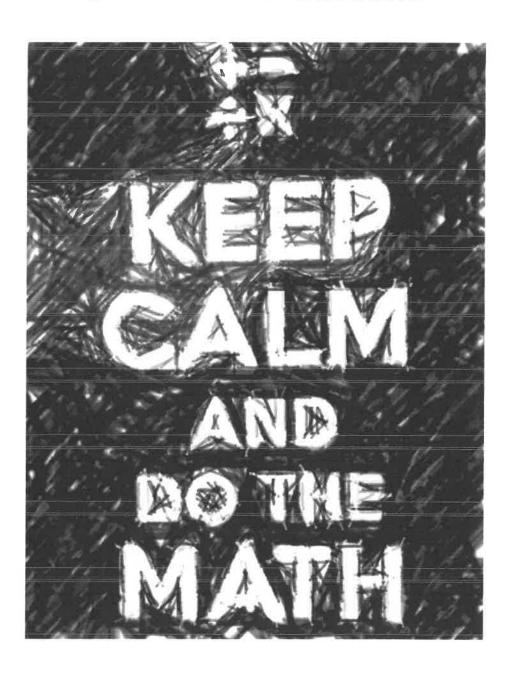
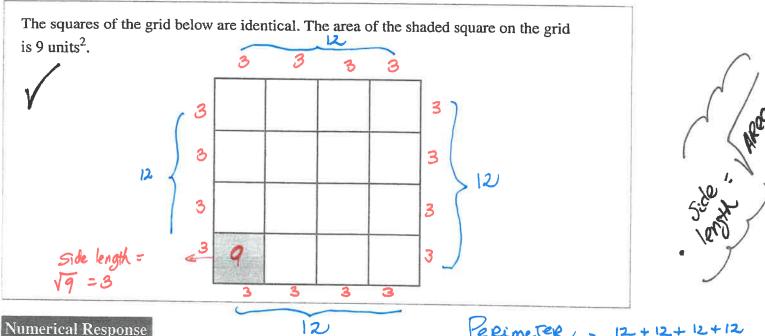
Math P.A.T. Prep Perimeter-SOLUTIONS



St. Brendan School Mr. Martínez

Strategy:

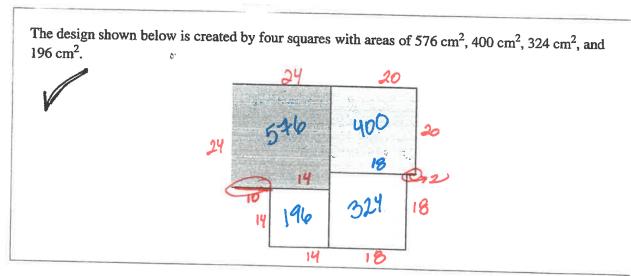
. Hways find the side lengths you need.



Perimeter = 12

The perimeter of the grid shown above is 48 cm units.

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



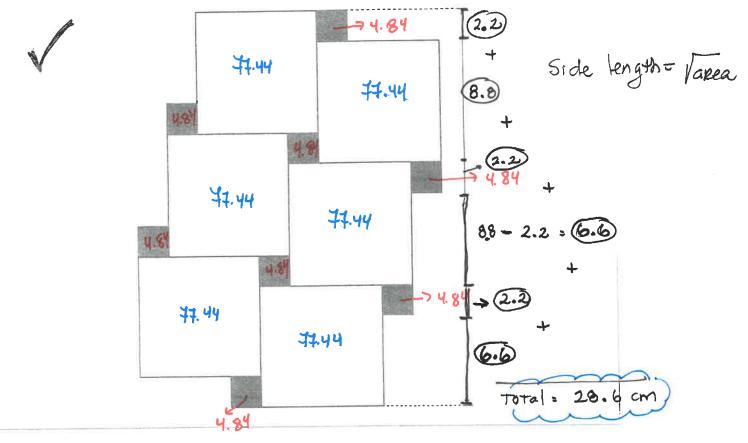
What is the perimeter of the design shown above?

A. 144 cm Perimeter= 24+20+20+2+18+18+14+14+10+24 = 164 cm)

B. 152 cm

C. 164 cm

D. 176 cm 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.

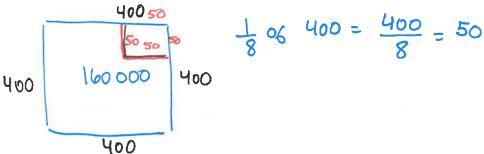


- 18. To the nearest tenth of a centimetre, what is the height of the design shown above?
 - A. 28.6 cm
 - B. 33.0 cm
 - C. 35.2 cm
 - **D.** 59.3 cm



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





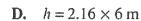
If a cube has a surface area of 2.16 m², then which of the following equations represents the height, h, of the cube?

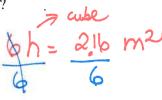


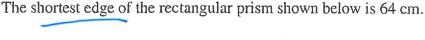
A.
$$h = \sqrt{\frac{2.16}{6}}$$
 m

B.
$$h = \sqrt{\frac{6}{2.16}}$$
 m

C.
$$h = \frac{2.16}{6}$$
 m









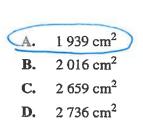
$$a^{4}=8^{4}=4096 \text{ cm}$$

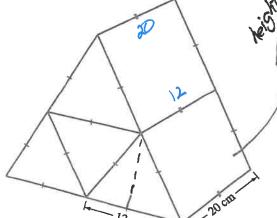
$$a^{2}=64$$
Then $a=\sqrt{64}=8$

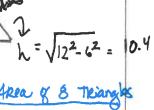
Note: The diagram shown above has not been drawn to scale.



Four identical triangular prisms are arranged together to form one large, triangular prism, as shown below. The five exterior surfaces of the large prism are then painted. ARea 06 6 Rectangles (20×12)×6= 1440 cm2







62.35 cm 2 x8

Painted area = 1440 + 488.83 cm2 To the nearest square centimetre, what is the total area of the painted surfaces?

1938.83 7 (1930