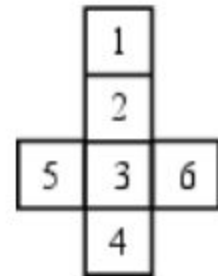


1. A rectangle has a perimeter of 42 and a width of 4. What is its length?



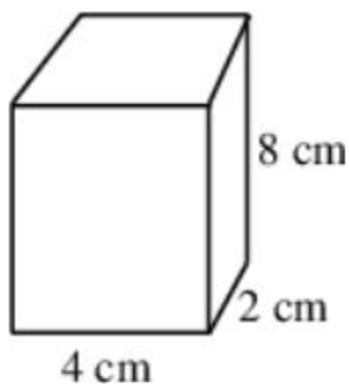
2. The volume of a rectangular block is 120 cm^3 . If the area of its base is 24 cm^2 , what is its height?



3. A cube is created by folding the figure shown. Which face is opposite the face with 1 on it?

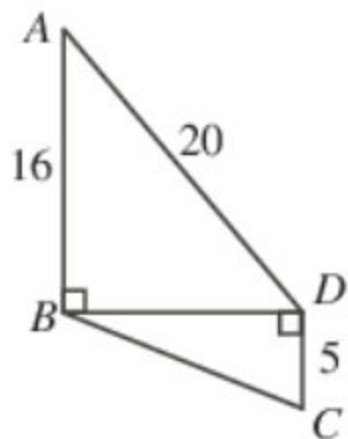
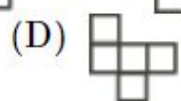
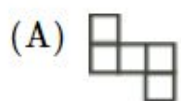


4. A rectangle with a width of 2 cm and a length of 18 cm has the same area as a square with a side length of

5. In the diagram, the volume of the rectangular prism is



6. A 4×4 square grid can be entirely covered by three non-overlapping pieces made from 1×1 squares. If the first two pieces are  and  the third piece is



7. In the diagram, what is the length of BC ?

8. The volume of a rectangular prism is 30 cm^3 . The length of the prism is doubled, the width is tripled, and the height is divided by four. The volume of the new prism is

9. Kalob's window measures $50\text{cm} \times 80 \text{ cm}$. Which of the following measurements would give an area that is exactly double the area of his window?

- (A) $25 \text{ cm} \times 160 \text{ cm}$ (B) $40 \text{ cm} \times 100 \text{ cm}$
 (C) $50 \text{ cm} \times 160 \text{ cm}$ (D) $100 \text{ cm} \times 160 \text{ cm}$
 (E) $50 \text{ cm} \times 120 \text{ cm}$

10. A rectangle whose side lengths are whole numbers has area 48 cm^2 . The perimeter of this rectangle is 32 cm . Measured in cm , the positive difference between the length and the width of the rectangle is