TEST NAME: **Surface Area Review #1**
TEST ID: **3145906**
GRADE: **07 - Seventh Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

05/22/19, Surface Area Review #1

Student: _____

Class: _____

Date: _____

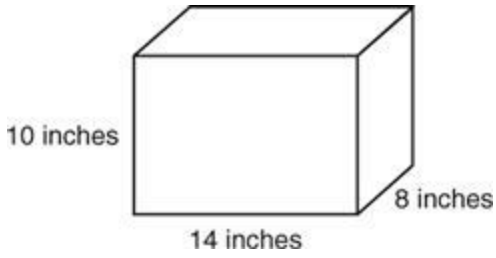
1. **A box manufacturer needs to make a cardboard box without a lid. The box must have a base of 4 feet by 3 feet and a height of 2 feet. How much cardboard will be needed to make the box?**

   A. $12\ ft^2$
   B. $28\ ft^2$
   C. $40\ ft^2$
   D. $52\ ft^2$

2. **The surface area of a cube is 864 cm^2. What must be the length of each edge?**

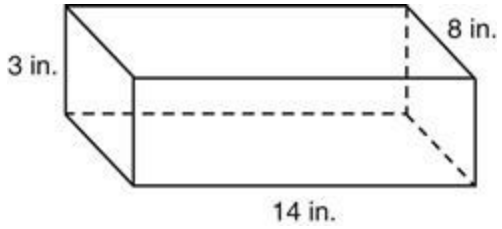
   A. 6 cm
   B. 12 cm
   C. 144 cm
   D. 288 cm

3. **What is the surface area of the rectangular solid below?**



   A. $332\ in.^2$
   B. $504\ in.^2$
   C. $664\ in.^2$
   D. $1120\ in.^2$

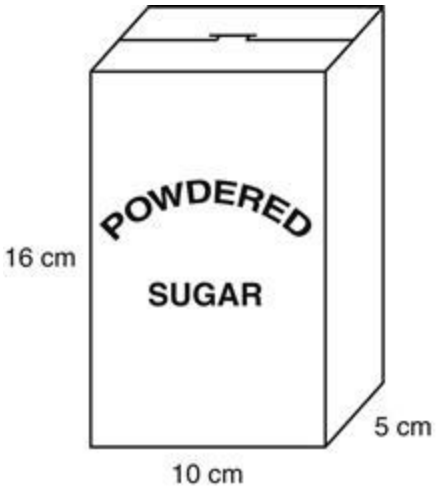
4. **Diane wants to decorate a rectangular box for a gift.**



How many square inches of paper will she need to cover the surface area of the box that she found?

A. 89
B. 178
C. 336
D. 356

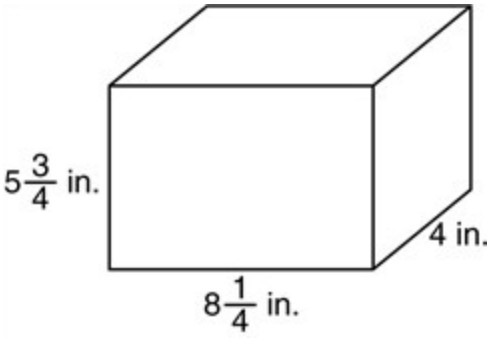
5. **A box of powdered sugar has the dimensions shown below.**



To prevent leaks, a plastic wrap covers the entire surface area of the box. What is the surface area of the box, in square centimeters?

A. 290
B. 480
C. 580
D. 800

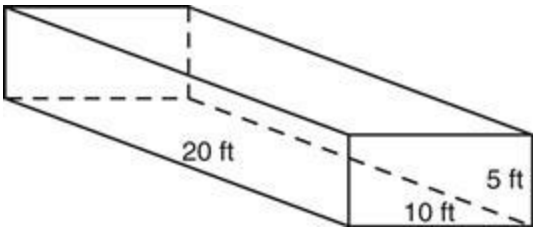
6. **Mike plans to cover a box with fabric.**



Which is closest to the number of square inches of fabric needed to cover the box?

A. 184
B. 192
C. 208
D. 228

7. **Carmen plans to paint the inside of her swimming pool before she fills it. The pool is a rectangular prism with a length of 20 feet, a width of 10 feet, and a depth of 5 feet. (Note: the top of the pool is open and will not be painted.)**



How many square feet of surface area will she paint?

A. 300
B. 500
C. 700
D. 1000

8. Robert wants to wrap a present that is shaped like a right rectangular prism. Which whole number represents the total surface area, in centimeters (cm) squared, of the present?

A. 210

B. 234

C. 318

D. 378

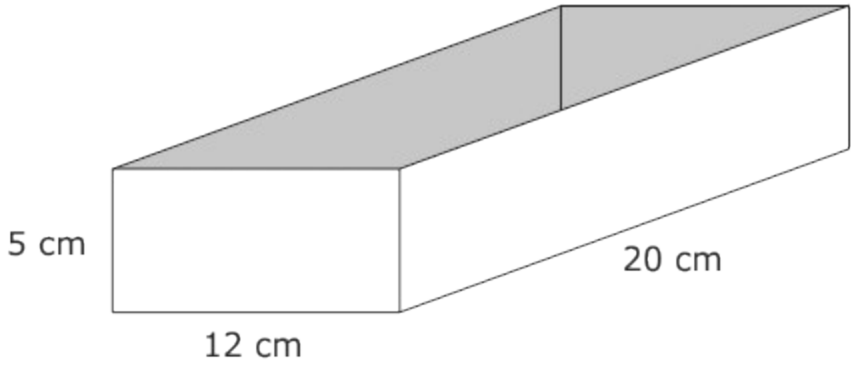
9. The length of a side of a cube is 4 in. What is the surface area of the cube?

A. 16 $in.^2$

B. 64 $in.^2$

C. 96 $in.^2$

10. The top of the box below has been removed.



What is the surface area of the remaining box?

A. 560 cm^2

B. 800 cm^2

C. 1,200 cm^2