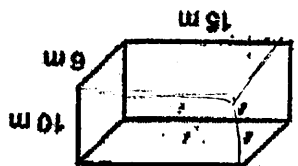


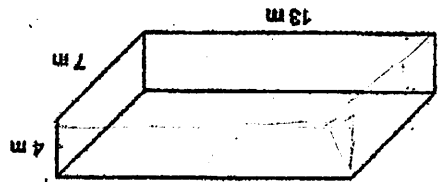
9. Find the surface area of this right rectangular prism.



$10 \cdot 6 = 60 \cdot 2 = 120$
 $15 \cdot 6 = 90 \cdot 2 = 180$
 $15 \cdot 10 = 150 \cdot 2 = 300$
 60

Show work here:

0. The Drama Club plans to paint the outside walls of this box to be used as a second level to their stage. Find the surface area of the box.



$7 \cdot 4 = 28 \cdot 2 = 56$
 $13 \cdot 4 = 52 \cdot 2 = 104$
 $13 \cdot 7 = 91 \cdot 2 = 182$

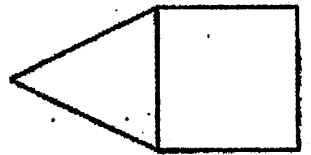
- a) 48 m² b) 342 m² c) 364 m² d) 171 m²

Show work here:

$25 - 6 = 150$

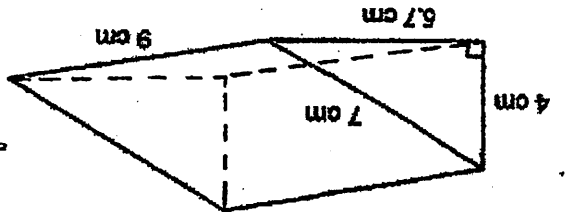
1. The area of one face of a cube is 25 cm². What is the surface area of the cube?

2. This is an incomplete net for a triangular prism. What shapes do you add to complete this net?



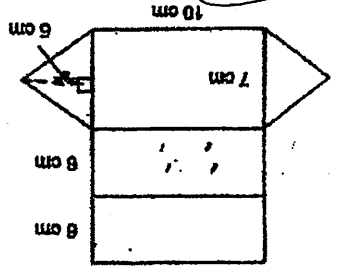
- a) 3 squares
 b) 1 triangle and 2 squares
 c) 1 triangle and 3 squares
 d) 3 triangles

3. Find the surface area of this right triangular prism.



$SA = 173.1 \text{ cm}^2$
 $SA = 2 \cdot \frac{1}{2} (5.7) (4) = 11.4 \cdot 2 = 22.8$
 $9 \times 5.7 = 51.3$
 $9 \times 4 = 36$
 $9 \times 7 = 63$

4. Calculate the area of this net of a right triangular prism.



$10 \cdot 7 = 70$
 $10 \cdot 6 = 60$
 $10 \cdot 6 = 60$

- a) 225 cm² b) 207.5 cm² c) 165 cm² d) 147.5 cm²

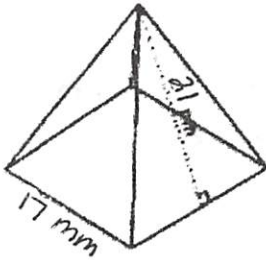
Show work here:

$SA = \frac{1}{2} (7) (5) = 17.5 \cdot 2 = 35$

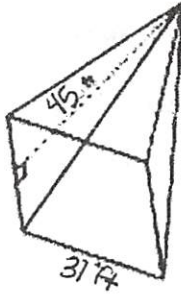
Surface Area Test Review

Name _____ Date _____ Period _____

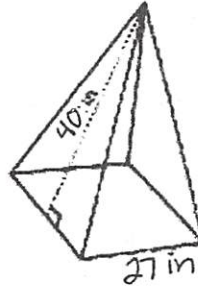
Find the surface area for numbers 1-3.



Surface Area = 1003 mm²



Surface Area = 3751 ft²



Surface Area = 2889 in²

4. Elaine's room is in the shape of a rectangular prism 15 feet long, 12 feet wide and 10 feet tall. Elaine paints the four walls and the ceiling, but not the floor. How much surface area does Elaine paint?

720 ft²

$12 \cdot 15 = 180$
 $120 \cdot 2 = 240$
 $150 \cdot 2 = 300$
 $180 + 240 + 300 = 720$

5)

$SA = 54 \text{ mm}^2$
 $\Delta = \frac{1}{2}(4) \cdot 3 = 6$
 $30 = \frac{1}{2}(4) \cdot 8 = 16$
 $\frac{16}{4} = 4$

6) Each of the faces of a triangular pyramid has a base of 16 cm and a height of 20 cm. Find the surface area of this 3-D object.

$SA = 640 \text{ cm}^2$
 $\frac{1}{2}(16)20 = 160$
 $\frac{160}{4} = 640$

7) Each of the faces of a triangular pyramid has a base of 12 ft and a height of 14 ft. Find the surface area of this 3-D object.

$SA = 336 \text{ ft}^2$
 $\frac{1}{2}(12)14 = 84$
 $\frac{84}{4} = 336$

8) Each of the faces of a triangular pyramid has a base of 15 inches and a height of 30 inches. Find the surface area of this 3-D object.

$SA = 225 \text{ in}^2$
 $\frac{1}{2}(15)30 = 225$
 $\frac{225}{4} = 900$