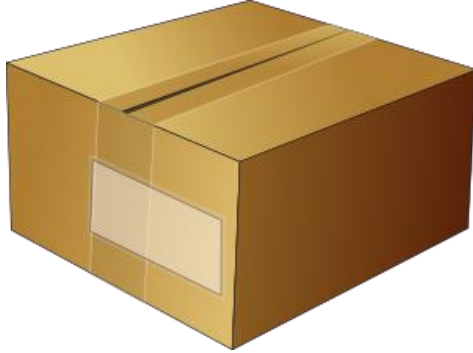


Easy Peasy All-in-One Homeschool -- Answer Key -- Step 2 -- Day 40

1. (a) 11 inches



8.3 inches

height is $2 \frac{1}{2} = 2.5$ inches

(b) Estimates may vary, should be something like $10 \times 8 \times 3 = 240$ cubic inches.

(c) Volume = (Length) x (Width) x (Height) = $11 \times 8.3 \times 2.5 = 228.25$ cubic inches.

2.

(a) Answers may vary.

- (b) Increase length from 11 to 12: Volume = $12 \times 8.3 \times 2.5 = 249$ cubic inches
Increase length from 8.3 to 9.3: Volume = $11 \times 9.3 \times 2.5 = 255.75$ cubic inches
Increase length from 2.5 to 3.5: Volume = $11 \times 8.3 \times 3.5 = 319.55$ cubic inches

(c) Compare results to answers in part (a).

3.

(a) Surface area is sum of:

Top	11 x 8.3	= 91.3 sq in
Bottom	11 x 8.3	= 91.3 sq in
Long Side	11 x 2.5	= 27.5 sq in
Long Side	11 x 2.5	= 27.5 sq in
Short Side	8.3 x 2.5	= 20.75 sq in
Short Side	8.3 x 2.5	= 20.75 sq in
Sum =		279.1 Square inches

(b) From #2 part (b) dimensions are 11 x 8.3 x 3.5

Top	11 x 8.3	= 91.3 sq in
Bottom	11 x 8.3	= 91.3 sq in
Long Side	11 x 3.5	= 38.5 sq in
Long Side	11 x 3.5	= 38.5 sq in
Short Side	8.3 x 3.5	= 29.05 sq in
Short Side	8.3 x 3.5	= 29.05 sq in
Sum =		317.7 Square inches

(c) Proportion:

$$\frac{\$2.00}{279.1 \text{ in}^2} = \frac{x}{317.7 \text{ in}^2}$$

$$635.4 = 279.1x$$

$$x = 2.2766$$

Answer: \$2.28