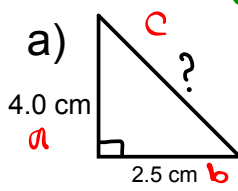
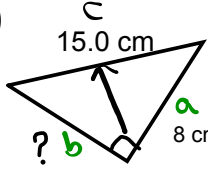


Monday, May 16 $c^2 = a^2 + b^2$
Grade 8

Assessment review

Use pythagorean theorem and find the length of the missing side

a)  $c^2 = a^2 + b^2$
 $= (4)^2 + (2.5)^2$
 $= 16\text{cm}^2 + 6.25\text{cm}^2$
 $c^2 = 22.25\text{cm}^2$
 $c = \sqrt{22.25\text{cm}^2}$
 $c = 4.71\text{cm}$

b)  $b^2 = c^2 - a^2$
 $= 15^2 - 8^2$
 $b^2 = 225 - 64$
 $b^2 = 161\text{cm}^2$
 $b = \sqrt{161\text{cm}^2}$
 $b = 12.7\text{cm}$

2) Which is a better buy?

6 items for \$12.50 or 20 items for \$42.40

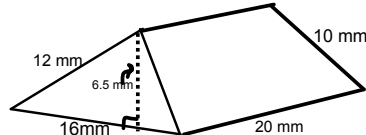
$\div 6$ $\div 6$ $\div 20$ $\div 20$

1 item for \$2.08 } 1 item for \$2.12

Better Buy

3) Review from Friday

Find the total surface area of the following triangular prism.
Sketch the faces. Show all work.



$A_{\Delta} = \frac{b \times h}{2}$
 $= \frac{16\text{mm} \times 6.5\text{mm}}{2}$
 $= \frac{104\text{mm}^2}{2}$
 $= 52\text{mm}^2$

$A = L \times w$
 $= 20\text{mm} \times 12\text{mm}$
 $= 240\text{mm}^2$

$A = L \times w$
 $= 20\text{mm} \times 10\text{mm}$
 $= 200\text{mm}^2$

$A = L \times w$
 $= 16\text{mm} \times 20\text{mm}$
 $= 320\text{mm}^2$

$$S.A_{\text{total}} = 2\Delta + \text{Rec} + \text{Rec} + \text{Rec}$$

$$= 2(52\text{mm}^2) + 320\text{mm}^2 + 240\text{mm}^2 + 200\text{mm}^2$$

$$= 104\text{mm}^2 + 320\text{mm}^2 + 240\text{mm}^2 + 200\text{mm}^2$$

$$= 864\text{mm}^2$$

HW Solutions

Warm Up

May 13, 2016

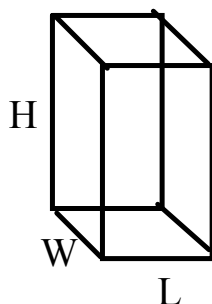


Whenever 3 dimensions are given, they are in the order:
length, width and height.

Assessment Review

1) An office is in the shape of a right rectangular prism with length 60 m width 40 m and height 200 m. The top quarter of each vertical face of the building is to be covered with a large banner advertising a major sporting event. What is the total surface area to be covered with banners?

Always ask yourself "Do you use the top/bottom"?



Side/Side

$$A=L \times W$$

$$= 40 \text{ m} \times 200 \text{ m}$$

$$= 8000 \text{ m}^2$$

Front/back

$$A=L \times W$$

$$= 60 \text{ m} \times 200 \text{ m}$$

$$= 12\,000 \text{ m}^2$$

$$\text{Total Wall SA} = 2(8\,000 \text{ m}^2 + 12\,000 \text{ m}^2)$$

$$= 2(20\,000 \text{ m}^2)$$

$$= 40\,000 \text{ m}^2$$

top quarter means to divide by 4

10 000 m² to be covered by banner

$$\text{Total S.A} = 2(\text{Triangle}) + \text{Rec} + \text{Rec} + \text{Rec}$$

thursday's

Extra Practice 4 – Master 4.39

Lesson 4.4

1.
 - a) 408 cm^2
 - b) 672 cm^2
 - c) 97.5 cm^2
2. 104 cm^2
3. 441.4 cm^2
4. Right triangle
 - a) 840 mm^2
 - b) 1740 mm^2

Friday

page 1 (done already)

Page 2

#2) 133.2 m^2

#3) 277.2 in^2

#4) 267 in^2

page 3)

top question 156 m^2

#3) 150 m^2

#4) 93 cm^2

#6) 94 in^2

#7) same as #4

#8) 162 m^2

#9) 130 ft^2

#10) 198 cm^2

#11) 76 yd^2

#12) 17.6 ft^2

#13) 136 m^2

#14) 53.1 mm^2

Class/Homework

we can do booklet



Attachments

Review of Surface area of 2D Shape Grade 8 Unit 4 PDF.pdf

Surface Area of Triangular Prisms.notebook