READY FOR THE TEST ON... Wednesday!!!

Geo_Mea_Fin 10 - Conversion Tables and Formula Sheet (Chp4_5).pdf

5.4 - Practice Problems.doc

Chapter 5 Sample Test.pdf

*** Corrections... M(#3 -> 7.2 C OR #22 -> 8.3 C 2 80.6 F











Introduction to Chapter 6... page 222

Math on the Job... page 224: As an i A standard roll of antique wallpaper measures 21" wide and 21' long, with the regular 21' length plastered vertically. Becky needs to completely paper the following area of walls: O 21inx -Wall 1: 14 feet wide by 12 feet high Wall 2: 16 feet wide by 12 feet high @ A ROLL = Wall 3: 10 feet wide by 12 feet high Wall 4: 20 feet wide by 12 feet high Arotal 1. How many rolls will Becky need to cover each wall? Q 2. What is the minimum number of rolls Becky will need to order to cover all of these SOLUTION 1. To calculate the number of wallpaper rolls needed, first calculate the surface area of one roll of wallpaper. Convert the width to feet. 21 in ÷ 12 in/ft = 1.75 ft $SA = width \times length$ $SA = 1.75 \times 21$ SA = 36.75 sq. ft. Calculate the area of each wall. Wall 1. $SA = width \times length$ $SA = 14 \times 12$ SA = 168 sq. ft. 2) Jotul # of Rolls... # sk rsus= 4.6+ 5.2+3.3+65 = (20 volls) Number of rolls to cover Wall 1: $168 \div 36.75 \approx 4.6$ Wall 2: $SA = width \times length$ $SA = 16 \times 12$ SA = 192 sq. ft.Number of rolls to cover Wall 2: 192 ÷ 36.75 ≈ 5.2 Wall 3: $SA = width \times length$ $SA = 10 \times 12$ SA = 120 sq. ft.Number of rolls to cover Wall 3: $120 \div 36.75 \approx 3.3$ Wall 4: $SA = width \times length$ $SA = 20 \times 12$ SA = 240 sq. ft.Number of rolls to cover Wall 4: 240 ÷ 36.75 ≈ 6.5

3 Dimensional Shapes...

- **Prism** a 3D shape with ends that are congruent polygons and with sides that are parallelograms.
- ex: rectangular prism; triangular prism



- **Base one** of the parallel faces of a prism
- Lateral Face a face that connects the bases of a prism.

4.12.3: Right Prisms and Their Nets (Teacher)

A right prism is a prism with two congruent polygon faces that lie directly above each other.

The base is the face that "stacks" to create the prism. This face determines the name of the prism.



Some right prisms and their nets:





REVIEW: Area Formulas...



Perimeter and Circumference

The perimeter is the distance around an object.



Perimeter and area

1) Find the perimeter of each figure.

2)Find the area of each figure - they have been divided into rectangles for you.





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HOMEWORK ... Mit Test

Review - Prior Knowledge for Section 6.1.pdf



BLACKLINE MASTER 6.9: SOLUTIONS

8

Order of Operations

1. $5^2 \times 3 - (84 - 37)$ $= 25 \times 3 - 47$ = 75 - 47= 282. $(22 - 25)^3 \div [(13 - 7) + 3]$ $=(-3)^3 \div (6+3)$ $= -27 \div 9$ = -33. $\left(\frac{36}{9}\right)^2 \times 2 - 15 \div (-3)$ $= 4^2 \times 2 - 15 \div (-3)$ $= 16 \times 2 - (-5)$ = 32 + 5= 374. $(-4)^3 + (5 - 11)^2 \div 12 + 20$ $=-64 + (-6)^2 \div 12 + 20$ $= -64 + 36 \div 12 + 20$ = -64 + 3 + 20= -41

Finding the Area of Composite Figures

5. $A = \ell w$

A = (10.5)(4.5) $A = 47.25 \text{ in}^2$

6. A = wh

$$A = (12)(18)$$

 $A = 216 \text{ cm}^2$

7.
$$A = \pi r^2$$

 $A = \pi (3.5)^2$

 $A \approx 38.48 \text{ yd}^2$

8.
$$A = \frac{1}{2}bh$$

 $A = \frac{1}{2}(5)(2.9)$
 $A = 7.25 \text{ ft}^2$

Working with Formulas

9.
$$4\pi r^2 (r = 3.4)$$

 $= 4\pi (3.4)^2$
 ≈ 145.27
10. $\frac{1}{3}\pi r^2 h (r = 5.2, h = 8)$
 $= \frac{1}{3}\pi (5.2)^2 (8)$
 ≈ 226.53
11. $\pi rs + \pi r^2 (r = 3, s = 4.3)$
 $= \pi (3)(4.3) + \pi (3)^2$
 $\approx 40.53 + 28.27$
 ≈ 68.8
12. $2\pi r^2 + 2\pi r h (r = 6.7, h = 12.3)$

 $= 2\pi(6.7)^2 + 2\pi(6.7)(12.3)$ $\approx 282.05 + 517.80$ ≈ 799.85

Converting Measurements Within and Between the SI and Imperial Systems

13. 4.56 km; metres

1 km = 1000 m 4.56 km = 4560 m

14. 56.64 yd; inches (1 yard = 36 inches)

1 yard = 36 inches 56.64 yards = 2039.04 inches

15. 27.2 feet; cm (1 foot ≈ 30.48 cm)

1 foot ≈ 30.48 cm 27.2 feet ≈ 829.056 cm

16. 89.2 miles; km (1 mile = 1.609344 km)

1 mile = 1.609344 km 89.2 miles ≈ 143.55 km 5.4 - Practice Problems.doc

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