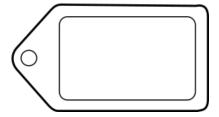
Aligned to the following standards: PS.04; FFAPG-J, FFA.CS-N; AG-PL4; AGPB01.04; MP1, MP2, MP4, MP6; CPR.04, CPR.06

Calculating Prices

DIRECTIONS:

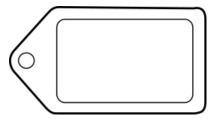
Work through the math questions below to practice calculating costs. Show your work.

How much does it cost to use a yard of ribbon?
 #9 satin ribbon
 Cost \$4.99 per roll
 100 yards per roll

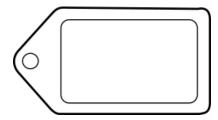


2. How much does a glass vase cost? 4-inch glass vase

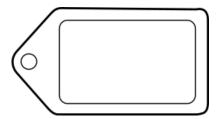
4-inch glass vase Cost \$19.95 per case 24 containers per case



3. How much does it cost to use half a block of floral foam? 1 floral foam block \$22.50 per block

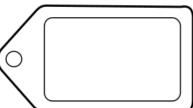


4. How much does it cost to use a stem of leatherleaf fern? Leatherleaf fern \$2.95 per bunch 20 stems per bunch



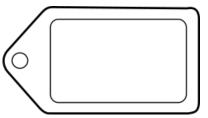
5.	How much is a quarter bunch of baby's breath? Baby's breath \$3.49 per bunch Determine by weight	
6.	How much are 2 rose stems? Hybrid tea roses \$69.99 a bunch 25 stems per bunch	
7.	What is the retail price on a dozen roses in a bouquet sleeve with a rati Sweetheart roses \$16.99 per bunch (25 stems) Bouquet sleeve \$9.95 per pack (100 sleeves)	io markup?
8.	What is the retail price with a ratio markup on a boutonniere with a sin galax leaf? The arrangement uses a foot of floral tape, 6 inches of decopins. Sweetheart roses \$16.99 per bunch (25 stems) Italian ruscus \$3.75 per bunch (5 stems) Galax leaves \$5.95 per bunch (15 leaves) Floral tape \$3.99 per roll (60 feet) 28-gauge wire \$2.97 per spool (150 feet) Boutonniere pins \$3.99 per box (40 pins)	gle rose, a stem of ruscus and a rative wire and 2 boutonniere

9.	What is the retail price of a glass vase arrangement that uses 12 carna a bunch of baby's breath with a 40 percent markup?	ntions, 8 leatherleaf stems and half
	Carnations \$13.99 per bunch (15 stems)	
	Leatherleaf fern \$2.95 per bunch (20 stems)	
	Baby's breath \$3.49 per bunch (determine by weight)	/ (
	Glass vase \$19.95 per case (24 vases)	/



10. What is the retail price of a ceramic container arrangement that uses a third of floral foam block, a quarter bunch of springeri fern, 3 hybrid tea roses, 3 snapdragons and 3 hydrangeas with a 75 percent markup?

Floral foam block \$22.60 per block Springeri fern \$3.49 per bunch (determine by weight) Hybrid tea roses \$69.99 per bunch (25 stems) Snapdragons \$1.99 per bunch (10 stems) White hydrangea \$49.95 per bunch (25 stems) 5-inch ceramic container \$34.99 per box (12 containers)



Aligned to the following standards: PS.04; FFAPG-J, FFA.CS-N; AG-PL4; AGPB01.04; MP1, MP2, MP4, MP6; CPR.04, CPR.06

Calculating Prices KEY

1. How much does it cost to use a yard of ribbon?

#9 satin ribbon Cost \$4.99 per roll 100 yards per roll

Total cost/yards per roll \$4.99/100=\$0.0499

2. How much does a glass vase cost?

4-inch glass vase Cost \$19.95 per case 24 containers per case

Total cost/number of vases \$19.95/24=\$0.831

3. How much does it cost to use half a block of floral foam?

Floral foam block \$22.50 per block

Total cost X 0.5 (or ½) \$22.50 X 0.5=\$11.25

4. How much does it cost to use a stem of leatherleaf?

Leatherleaf fern \$2.95 per bunch 20 stems per bunch

Total cost/stems per bunch \$2.95/20=\$0.147

5. How much is a quarter bunch of baby's breath?

Baby's breath \$3.49 per bunch Determine by weight

Total cost X 0.25 (or ¼) \$3.49X0.25=\$0.872

6. How much are 2 rose stems?

Hybrid tea roses \$69.99 a bunch 25 stems per bunch

Total cost/stems per bunch \$69.99/25=\$2.80 Single item price X quantity \$2.80X2=\$5.60













7. What is the retail price on a dozen roses in a bouquet sleeve with a ratio markup?

Sweetheart roses \$16.99 per bunch (25 stems) Bouquet sleeve \$9.95 per pack (100 sleeves)

Total cost/amount in total \$16.99/25= \$0.68 per stem \$9.95/100= \$0.10 per sleeve

Individual price x quantity used \$0.68X12=\$8.16 subtotal for a dozen (fresh goods) \$0.10X1= \$0.10 subtotal for a sleeve (hard goods)

3:1 ratio markup on fresh goods subtotal \$8.16X3= \$24.48

2:1 ratio markup on hard goods subtotal \$0.10X2= \$0.20

Subtotals combined for final retail price \$24.48+0.20= \$24.68



8. What is the retail price with a ratio markup on a boutonniere with a single rose, a stem of ruscus and a galax leaf? The arrangement uses a foot of floral tape, 6 inches of decorative wire, and 2 boutonniere pins.

Sweetheart roses \$16.99 per bunch (25 stems) Italian ruscus \$3.75 per bunch (5 stems) Galax leaves \$5.95 per bunch (15 leaves) Floral tape \$3.99 per roll (60 feet) 28-gauge wire \$2.97 per spool (150 feet) Boutonniere pins \$3.99 per box (40 pins)

Total cost/amount in total \$16.99/25= \$0.68 per stem \$3.75/5= \$0.75 per stem \$5.95/15= \$0.40 per leaf \$3.99/60= \$0.07 per foot \$2.97/150= \$0.02 per foot \$3.99/40= \$0.10 per pin

Subtotal fresh and hard goods (don't forget quantity!) \$0.68(1 rose)+\$0.75(1 ruscus)+\$0.40(1 galax)=\$1.83 (fresh goods)

\$0.07(1' tape) + \$0.01(6'' wire) + \$0.20(2 pins) = \$0.28 (hard goods)

3:1 ratio markup on fresh goods subtotal \$1.83X3= \$5.49

2:1 ratio markup on hard goods subtotal \$0.28X2= \$0.56

Subtotals combined for final retail price \$5.49+\$0.56=\$6.05



9. What is the retail price of a glass vase arrangement that uses 12 carnations, 8 leatherleaf stems, and half a bunch of baby's breath with a 40 percent markup?

Carnations \$13.99 per bunch (15 stems) Leatherleaf fern \$2.95 per bunch (20 stems) Baby's breath 3.49 per bunch (determine by weight) Glass Vase 19.95 per case (24 vases)

(Total cost/amount in total) X quantity used \$13.99/15=\$0.93 per stem 0.93X12=\$11.16 for 12 \$2.95/20=\$0.15 per stem 0.15X8=\$1.20 for 8 \$3.49X0.5(or $\frac{1}{2}$) = \$1.75 for half a bunch \$19.95/24=\$0.83 for a glass vase

Subtotal of all items used \$11.16 + \$1.20 + \$1.75 + \$0.83 = \$14.94 subtotal

Calculate 40% markup cost from the subtotal 14.94X0.40= \$5.98

Add the markup to the subtotal for the final retail price. \$5.98+\$14.94= \$20.92



10. What is the retail price of a ceramic container arrangement that uses a third of floral foam block, a quarter bunch of springeri fern, 3 hybrid tea roses, 3 snapdragons and 3 hydrangeas with a 75 percent markup?

Floral foam block \$22.60 per block Springeri fern \$3.49 per bunch (determine by weight) Hybrid tea roses \$69.99 per bunch (25 stems) Snapdragons \$1.99 per bunch (10 stems) White hydrangea \$49.95 per bunch (25 stems) 5-inch ceramic container \$34.99 per box (12 containers)

(Total cost/amount in total) X quantity used \$22.60/3= \$7.50 for 1/3 foam \$3.49/4= \$0.87 for ½ bunch \$69.99/25= \$2.80 per stem 2.80X3= \$8.40 for 3 \$1.99/10= \$0.20 per stem 0.20X3= \$0.60 for 3 \$49.95/25= \$2.00 per stem 2.00X3= \$6.00 for 3 \$34.99/12= \$2.92 for 1 container

Subtotal of all items used \$7.50 + \$0.87 + \$8.40 + \$0.60 + \$6.00 + \$2.92 = \$26.29 subtotal

Calculate 75% markup cost from the subtotal \$26.29X0.75= \$19.72

Add the markup to the subtotal for the final retail price. \$19.72+\$26.29=\$46.01



Floral Arranging Practicum Examples



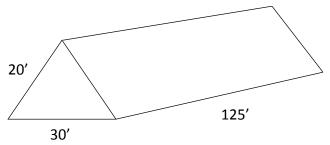
79 H x 86 L CM

Item	Number of	Price		
	Stems Sold in			
	Bunch, Box, or			
	Roll			
Roses	25/ bunch	\$40.00/bunch		
White Standard	25/bunch	\$15.00/bunch		
Carnations				
White Cushion	6/bunch	\$16.00/bunch		
Pompom stems				
Leatherleaf	15/bunch	\$12.00/bunch		
Stem				
Myrtle Stem	10/bunch	\$8.00/bunch		
Plumosa Stems	35/bunch	\$10.00/bunch		
Floral Foam	20 blocks /box	\$22.00/box		
#9 Ribbon	100 yds/roll	\$5.00/roll		
Card		\$1.00		
Paper Mache		\$2.00		
Container				

1.	What is the cost per rose in this flower arrangement?								
	a.	\$1.60	b. \$0.80	0	c. \$24.	00	d. \$2.2	0	
2.	What is the cost of the #9 ribbon used in this arrangement?								
	a.	\$0.05	b. \$0.13	5	c. 0.30		d. \$5.0	00	
3.	What i	hat is the cost of the leatherleaf used in this arrangement?							
	a.	\$2.40	b. \$0.80)	c. \$8.0	0	d. \$4.8	0	
4.	What type of arrangement is this?								
	a. One-sided b. 360 degree arrangement c. overhead d. two-sided								
5.	What is the total cost of greens in this arrangement?								
	a.	\$35.94		b. \$10.	98	c. \$5.3	5		d. \$10.40
6.	What i	s the co	st of flo	wers in	this arr	angeme	ent?		
	a.	\$35.94		b. \$10.	98	c. \$5.3	5		d. \$10.40
7.	What is the total cost of hardgoods and accessories in this arrangement?								
	a.	\$35.94		b. \$10.	98	c. \$5.3	5		d. \$10.40
8.	If a 40% markup is included, what is the retail price of this arrangement?								
	a.	\$52.27		b. \$20.	91	c. \$73.	18		d. \$66.99
9.	What is the height of the arrangement?								
	a.	25"		b. 30'		c. 34"		d. 31"	
10.	10. This arrangement would most likely be used:								
	a. as a centerpiece b. as a Thanksgiving holiday piece c. as a sympathy/funeral arrangement d. as a standing spray								

Example Chemical Problem Solving

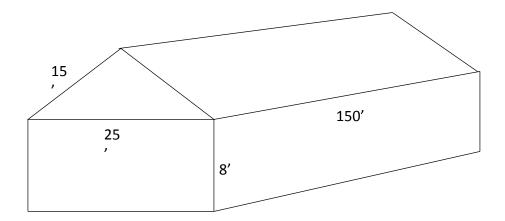
1. Calculate the area so you know how many cubic feet you would need to spray in the greenhouse roof area.



a. 175 cubic

feet

- b. 37,500 cubic feet
- c. 45,250 cubic feet
- d. 75,000 cubic feet
- 2. You want to apply 5 pounds active ingredient (a.i.) per acre. Your formulation is 70 pounds percent wetable powder (WP). How much formulation do you need per acre?
 - a. .14 pounds
 - b. 3.5 pounds
 - c. 5.34 pounds
 - d. 7.14 pounds
- 3. How many cubic feet does the greenhouse have so you can calculate how much area to cover for your greenhouse pesticides?



- a. 198 cubic feet
- b. 58,125 cubic feet
- c. 86,250 cubic feet
- d. 450,000 cubic feet
- 4. Your sprayer holds 3 gallons of mix. The pesticide you are spraying instructs you to mix 2 tablespoons of active ingredient for every quart of water. How much active ingredient should you add to the tank to make a full tank load?
 - a. 2 tablespoons
 - b. 6 tablespoons

- c. 12 tablespoons
- d. 24 tablespoons
- 5. The label lists the application rate as 2 pounds formulation per 100 gallons of water for dilute application. Your sprayer tank holds 50 gallons. How many pounds of formulation should you add for a full tank load?
 - a. 0.5 pounds
 - b. 1 pound
 - c. 2 pounds
 - d. 25 pounds
- 6. What is the area of the circle to the right?
 - a. 7.1 square feet
 - b. 28.3 square feet
 - c. 63.6 square feet
 - d. 95.4 square feet
- 7. What is the volume of the greenhouse to the right if the width is 18 feet and the length is 30 feet?
 - a. 254 cubic feet
 - b. 540 cubic feet
 - c. 3,815 cubic feet
 - d. 7,630 cubic feet

