# Accounting Cycle Exercises III 

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## Accounting Cycle Exercises III

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|  | A CAREER WITHIN FINANCE \& IT |
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## Problem 1

Following are three separate transactions that pertain to prepaid items. Evaluate each item and prepare the journal entries that would be needed for the initial recording and subsequent end-of-20X3 adjusting entry. Assume the company uses the balance sheet approach, and the initial recording is to an asset account. The company has a calendar year-end and does not make any adjusting entries prior to December 31.

1) The company purchased an 18 -month insurance policy for $\$ 9,000$ on June $1,20 \mathrm{X} 3$.
2) The company started 20 X 3 with $\$ 10,000$ in supplies (this was previously recorded, and you do not need to make an entry for the beginning balance), purchased $\$ 15,000$ in supplies during the year, and found only $\$ 6,500$ in supplies on hand at the end of 20X3.
3) The company paid $\$ 1,200$ to rent a truck. The rental period began on December 16, 20X3, and ends on February 14, 20X4.

## Worksheet 1

| GENERAL JOURNAL |  |  |  |
| :---: | :---: | :---: | :---: |
| Date | Accounts | Debit | Credit |
| Jun. 1 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Dec. 30 |  |  |  |
|  |  |  |  |
|  |  |  |  |

GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :---: | :---: | :---: |
| Various |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Dec. 31 |  |  |  |
|  |  |  |  |
|  |  |  |  |

GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :---: | :---: | :---: |
| Dec. 16 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Dec. 31 |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Solution 1

GENERAL JOURNAL

| GENERAL JOURNAL |  |  |  |  |
| :---: | :--- | ---: | ---: | :---: |
| Date | Accounts | Debit | Credit |  |
| Jun. 1 | Prepaid Insurance | 9,000 |  |  |
|  | Cash |  | 9,000 |  |
|  | Purchased 18-month policy |  |  |  |
|  |  |  |  |  |
| Dec, 30 | Insurance Expense |  |  |  |
|  | Prepaid Insurance |  | 3,500 |  |
|  | To record expiration of 7 months of coverage <br> (7/18 $\$ 9,000)$ |  |  |  |


| GENERAL JOURNAL |  |  |  |
| :---: | :--- | :---: | :---: |
| Date | Accounts | Debit | Credit |
| Various | Supplies | 15,000 |  |
|  | Cash |  | 15,000 |
|  | Purchased supplies |  |  |
|  |  |  |  |
| Dec. 31 | Supplies Expense | 18,500 |  |
|  | Supplies |  | 18,500 |
|  | To record supplies used $(\$ 10,000$ beginning + <br> $\$ 15,000$ purchased $-\$ 6,500$ remaining $)$ |  |  |


| GENERAL JOURNAL |  |  |  |
| :---: | :--- | :---: | :---: |
| Date | Accounts | Debit | Credit |
| Dec. 16 | Prepaid Rent | 1,200 |  |
|  | Cash |  | 1,200 |
|  | Rented a truck for 60 days |  |  |
|  |  |  |  |
| Dec. 31 | Rent Expense | 300 |  |
|  | Prepaid Rent |  | 300 |
|  | To record use of truck for 15 days <br> $(15 / 60 \times \$ 1,200)$ |  |  |

## Problem 2

Caritas Publishing issues the Weekly Welder. The company's primary sources of revenue are sales of subscriptions to customers and sales of advertising in the Weekly Welder. Caritas owns its building and has excess office space that it leases to others.

The following transactions involved the receipt of advance payments. Prepare the indicated journal entries for each set of transactions.

1) On September 1, $20 X 7$, the company received a $\$ 48,000$ payment from an advertising client for a 6 -month advertising campaign. The campaign was to run from November, 20X7, through the end of April, 20X8. Prepare the journal entry on September 1, and the December 31 end-of-year adjusting entry.
2) The company began $20 X 7$ with $\$ 360,000$ in unearned revenue relating to sales of subscriptions for future issues. During 20X7, additional subscriptions were sold for $\$ 3,490,000$. Magazines delivered during 20X7 under outstanding subscriptions totaled $\$ 3,060,000$. Prepare a summary journal entry to reflect the sales of subscriptions, and the end-of-year adjusting entry to reflect magazines delivered.
3) The company received a $\$ 9,000$ rental payment on December 16, 20X7, for the period running from mid-December to Mid-January. Prepare the December 16 journal entry, as well as the December 31 end-of-year adjusting entry

## Worksheet 2

| GENERAL JOURNAL |  |  |  |
| :---: | :---: | :---: | :---: |
| Date | Accounts | Debit | Credit |
| Sep. 1 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Dec. 31 |  |  |  |
|  |  |  |  |
|  |  |  |  |

GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :---: | :---: | :---: |
| Various |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Dec. 31 |  |  |  |
|  |  |  |  |
|  |  |  |  |


| GENERAL JOURNAL |  |  |  |
| :---: | :---: | :---: | :---: |
| Date | Accounts | Debit | Credit |
| Dec. 16 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Dec. 31 |  |  |  |
|  |  |  |  |
|  |  |  |  |

Solution 2
GENERAL JOURNAL

\left.| Date | Accounts | Debit | Credit |
| :---: | :--- | ---: | :---: |
| Sep. 1 | Cash | 48,000 |  |
|  | Unearned Advertising Revenue |  | 48,000 |
|  | Sold 6-month ad campaign |  |  |
|  |  |  | 16,000 |$\right]$


| GENERAL JOURNAL |  |  |  |  |
| :---: | :--- | ---: | ---: | :---: |
| Date | Accounts | Debit | Credit |  |
| Various | Cash | $3,490,000$ |  |  |
|  | Unearned Subscription Revenue |  | $3,490,000$ |  |
|  | Sold advance subscriptions |  |  |  |
|  |  |  |  |  |
| Dec. 31 | Unearned Subscription Revenue | $3,060,000$ |  |  |
|  | Subscription Revenue |  | $3,060,000$ |  |
|  | To record subscriptions delivered |  |  |  |


| GENERAL JOURNAL |  |  |  |
| :---: | :--- | ---: | ---: |
| Date | Accounts | Debit | Credit |
| Dec. 16 | Cash | 9,000 |  |
|  | Unearned Rental Revenue |  | 9,000 |
|  | Rented office space to tenant |  |  |
|  |  |  |  |
| Dec. 31 | Unearned Rental Revenue |  |  |
|  | Rental Revenue |  | 4,500 |
|  | To record rents earned for last half <br> of December |  |  |



## Problem 3

EarCreations Technologies of Manchester recently introduced a blue-tooth enabled hearing aid that allows hearing-disabled users to not only hear better, but also interface with their cell phones and digital music players.

The company reports the following four transactions and events related to December of 20X7, and is seeking your help to prepare the end-of-year adjusting entries needed at December 31.

1) On December 1, the company borrowed $£ 20,000,000$ at an $8 \%$ per annum interest rate. The loan, and all accrued interest, is due in 3 months.
2) Early in December, the company licensed their new technology to Quick Computer, Inc., for use in Quick's existing product lines. The agreement provides for a royalty payment from Quick to EarCreations based on Quick's sales of products using the licensed technology. As of December 31, $£ 90,000$ is due under the agreement for actual sales made by Quick to date.
3) EarCreations pays many employee's on an hourly basis. As of December 31, there are 10,640 unpaid labor hours already worked, at an average hourly rate of $£ 34$.
4) The company estimates that utilities used during December, for which bills will be received in January, amount to $£ 40,000$.

## Worksheet 3

GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :---: | :---: | :---: |
| Dec. 31 |  |  |  |
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| Dec. 31 |  |  |  |
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| Dec. 31 |  |  |  |
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| Dec. 31 |  |  |  |
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|  |  |  |  |

## Solution 3

| GENERAL JOURNAL |  |  |  |
| :---: | :--- | ---: | ---: |
| Accounts | Debit | Credit |  |
| Dec. 31 | Interest Expense | 133,333 |  |
|  | Interest Payable |  | 133,333 |
|  | $\begin{array}{l}\text { Accrued interest for 1 month } \\ (£ 20,000,000 \text { X 8\% X 1/12) }\end{array}$ |  |  |
|  |  |  | 90,000 |$]$



## Problem 4

Nathan Goldstien's administrative assistant maintains a very simple computerized general ledger system. This system includes intuitive routines for recording receipts, payments, and sales on account. However, the system is not sufficiently robust to automate end-of-period adjustments. Below is the trial balance for the month ending January 31, 20X8. This trial balance has not been adjusted for the various items that are described on the following page. Review the trial balance and narratives, and prepare the necessary adjusting entries.

| NATHAN CORPORATION <br> Trial Balance January 31, 20X8 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Debits |  | Credits |  |
| Cash | \$ | 112,500 | \$ | - |
| Accounts Receivable |  | 37,230 |  | - |
| Prepaid Insurance |  | 7,200 |  | - |
| Supplies |  | 21,339 |  | - |
| Equipment |  | 105,000 |  | - |
| Accumulated Depreciation |  | - |  | 30,000 |
| Accounts Payable |  | - |  | 22,707 |
| Unearned Revenue |  | - |  | 25,500 |
| Loan Payable |  | - |  | 45,000 |
| Capital Stock |  | - |  | 72,000 |
| Retained Earnings, Jan. 1 |  | - |  | 46,371 |
| Revenues |  | - |  | 131,985 |
| Salary Expense |  | 36,294 |  | - |
| Rent Expense |  | 39,000 |  | - |
| Office Expense |  | 7,500 |  | - |
| Dividends |  | 7,500 |  | - |
|  | \$ | 373,563 |  | 373,563 |

Nathan Corporation's equipment had an original life of 140 months, and the straight-line depreciation method is used. As of January 1, the equipment was 40 months old. The equipment will be worthless at the end of its useful life.

As of the end of the month, Asher Corporation has provided services to customers for which the earnings process is complete. Formal billings are normally sent out on the first day of each month for the prior month's work. January's unbilled work is $\$ 75,000$.

Utilities used during January, for which bills will soon be forthcoming from providers, are estimated at $\$ 4,500$.

A review of supplies on hand at the end of the month revealed items costing $\$ 10,500$.
The $\$ 7,200$ balance in prepaid insurance was for a 6 -month policy running from January 1 to June 30 .
The unearned revenue was collected in December of 20X7. 60\% of that amount was actually earned in January, with the remainder to be earned in February.

The loan accrues interest at $1 \%$ per month. No interest was paid in January.

## Worksheet 4

## GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :---: | :---: | :---: |
| Jan. 31 |  |  |  |
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| Jan. 31 |  |  |  |
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| Jan. 31 |  |  |  |
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| Jan. 31 |  |  |  |
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## Solution 4

## GENERAL JOURNAL



## Problem 5

Evaluate the following items, and determine the correct amount to report on the income statement for each, using the accrual basis of accounting for the referenced period of time.

| Revenues | A Company had beginning accounts receivable of $\$ 16,000$. The company <br> reported cash basis revenues of $\$ 200,000$. The ending accounts receivable <br> amounted to $\$ 36,000$. |
| :--- | :--- |
| Supplies | B Company purchased $\$ 50,000$ of supplies. Supplies on hand decreased by <br> $\$ 10,000$ during the period. |
| Rent | C Company started the year with no prepaid rent, and ended the year with <br> $\$ 2,000$ in prepaid rent. Rent expense on a cash basis was $\$ 26,000$. |
| Equipment | A the beginning of the year, D Company purchased and expensed an item of <br> equipment for $\$ 40,000$. The equipment has a 4-year life, and will be worthless <br> after four years. |
| Wages | There were no wages payable at the beginning of the year. E Company <br> paid $\$ 290,000$ in wages during the year, and owed an additional $\$ 24,000$ at <br> year's end. |

## Worksheet 5

| Revenues |  |
| :--- | :--- |
| Supplies |  |
| Rent |  |
| Equipment |  |
| Wages |  |

## Solution 5

| Revenues | $\$ 220,000$. The increase in Accounts Receivable corresponds to services rendered <br> but not yet collected. Therefore, accrual basis revenues exceed cash basis <br> revenues by $\$ 20,000$. |
| :--- | :--- |
| Supplies | $\$ 60,000$. The decrease in supplies means that $\$ 10,000$ more was used than <br> purchased. The accrual basis will measure supplies used as the amount of <br> expense for the period. |
| Rent | $\$ 24,000$. The increase in Prepaid Rent signifies that payments exceeded <br> consumption. |
| Equipment | $\$ 10,000$. The accrual basis would result in depreciating $25 \%$ of the asset cost <br> $(\$ 40,000 / 4$ years). |
| Wages | $\$ 314,000$. Accrual basis Wage Expense would include the amount owed at the <br> end of the year. |



## Problem 6

Toto Motors is an automobile service center offering a full range of repair services for high performance cars. The following information is pertinent to adjusting entries that are needed for Toto, as of March 31, 20X5. Toto has a fiscal year ending on March 31, and only records adjusting entries at year end.

Toto has a large investment in repair equipment, and maintains detailed asset records. These records show that depreciation for fiscal "X5" is $\$ 61,700$.

As of March 31, 20X5, accrued interest on loans owed by Toto is $\$ 10,839$.

Auto dealerships outsource work to Toto. This work is done on account, and billed monthly. As of March 31, 20X5, $\$ 27,400$ of unbilled services have been provided.

Toto maintains a general business liability insurance policy. The prepaid annual premium is $\$ 12,000$. The policy was purchased on October 1, 20X4. Another policy is a 6 -month property and casualty policy, and it was obtained on December 1, 20X4, at a cost of $\$ 6,000$. Both policies were initially recorded as prepaid insurance.

The company prepared a detailed count of shop supplies at March 31, 20X4. \$18,952 was on hand at that date. Management believed this level was greater than necessary and undertook a strategy to reduce these levels over the next year. During the fiscal year 20X5, Toto purchased an additional \$62,500 of supplies, and debited the Supplies account. By March 31, 20X5, the effort to reduce inventory was successful, as the count revealed an ending balance of only $\$ 6,800$.

During the fiscal year, Toto began offering a service contract to retail customers entitling them regular tire rotations, car washing, and other routine maintenance items. Customers prepay for this service agreement, and Toto records the proceeds in the Unearned Revenue account. The service plan is a flat fee of $\$ 189$, and Toto sold the plan to 678 customers. At March 31, 20X5, it is estimated that $25 \%$ of the necessary work has been provided under these agreements.

Toto's primary advertising is on billboards. Big and Wide Outdoor Advertising sold Toto a plan for multiple sign locations around the city. Because Toto agreed to prepay the full price of $\$ 13,000$, Big and Wide agreed to leave the signs up for 13 months. Toto paid on June $1,20 \mathrm{X} 4$, and recorded the full amount as a prepaid. However, the advertising campaign was not begun until July 1, 20X4. It will conclude on July 31, 20X5.

Toto leases shop space. Monthly rent is due and payable on the first day of each month. Toto paid March's rent on March 1, and expects to pay April's rent on April 1.

Prepare adjusting entries (hint: when necessary) for Toto, as of March 31, 20X5.

## Worksheet 6

| GENERAL JOURNAL |  |  |  |
| :---: | :---: | :---: | :---: |
| Date | Accounts | Debit | Credit |
| Mar. 31 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Mar. 31 |  |  |  |
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| Mar. 31 |  |  |  |
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| Mar. 31 |  |  |  |
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| Mar. 31 |  |  |  |
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| Mar. 31 |  |  |  |
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|  |  |  |  |
| Mar. 31 |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Solution 6

GENERAL JOURNAL

\left.| Date | Accounts | Debit | Credit |
| :---: | :--- | ---: | :---: |
| Mar. 31 | Depreciation Expense | 61,700 |  |
|  | Accumulated Depreciation |  | 61,700 |
|  | To record depreciation expense |  |  |
|  |  |  | 10,839 |$\right]$

## Problem 7

Examine each of the following fact scenarios, then prepare initial and end-of-year adjusting entries (when needed) assuming (a) use of a "balance sheet" approach versus (b) use of an "income statement" approach. You may assume a calendar year end for each scenario. Use T-accounts to show how the same financial statement results occur under either approach. The preprinted worksheet includes an illustrative solution for the first scenario.

Scenario 1 A \$4,500, one-year insurance policy was purchased on June 1, 20X1.

Scenario $2 \quad \$ 60,000$ of unearned revenue was collected on August 1, 20X1. 40\% of this amount was earned by the end of the year.

Scenario 3 On December 1, 20X1, $\$ 9,000$ was prepaid for space in a trade-show booth. The trade show is in February of 20X2.

Scenario 4 A \$3,000 customer deposit for future services was received on April 1, 20X1. On June 20, 20X1, the customer canceled the agreement and received a full refund.


## Worksheet 7

## Scenario 1: Balance Sheet Approach

| $06 / 01 / X 1$ | Prepaid Insurance | 4,500 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 4,500 |
|  | To record payment for 1-year policy |  |  |


| $12 / 31 / \mathrm{X} 1$ | Insurance Expense | 2,625 |  |
| :--- | :--- | ---: | ---: |
|  | Prepaid Insurance |  | 2,625 |
|  | To record insurance "used" <br> $(\$ 4,500 \times 7 / 12)$ |  |  |



## Scenario 1: Income Statement Approach

| $06 / 01 / X 1$ | Insurance Expense | 4,500 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 4,500 |
|  | To record payment for 1-year policy |  |  |


| $12 / 31 / \mathrm{X} 1$ | Prepaid Insurance | 1,875 |  |
| :--- | :--- | ---: | ---: |
|  | Insurance Expense |  | 1,875 |
|  | To record insurance "unused" <br> $(\$ 4,500 \times 5 / 12)$ |  |  |


| Insurance Expense |  |  |  |
| ---: | ---: | ---: | ---: |
| $06 / 01 / \mathrm{X1}$ | 4,500 | 1,875 | $12 / 31 / \mathrm{X1}$ |
|  |  |  |  |
|  | 2,625 |  |  |
|  |  |  |  |

## Scenario 2: Balance Sheet Approach

| $08 / 01 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| $12 / 31 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |



## Scenario 2: Income Statement Approach

| $08 / 01 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| $12 / 31 / X 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |



## Scenario 3: Balance Sheet Approach

| $12 / 01 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| $12 / 31 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |



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## Scenario 3: Income Statement Approach

| $12 / 01 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| $12 / 31 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |



Scenario 4: Balance Sheet Approach

| $04 / 01 / X 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| $06 / 20 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |



## Scenario 4: Income Statement Approach

| $04 / 01 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| $06 / 20 / \mathrm{X} 1$ |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |



## Solution 7

## Scenario 1: Balance Sheet Approach

| $06 / 01 / X 1$ | Prepaid Insurance | 4,500 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 4,500 |
|  | To record payment for 1-year policy |  |  |


| $12 / 31 / \mathrm{X} 1$ | Insurance Expense | 2,625 |  |
| :--- | :--- | ---: | ---: |
|  | Prepaid Insurance |  | 2,625 |
|  | To record insurance "used" <br> $(\$ 4,500 \times 7 / 12)$ |  |  |


| Prepaid Insurance |  |  |  |
| :---: | :---: | :---: | :---: |
| 06/01/X1 | 4,500 | 2,625 | 12/31/X1 |
|  | 1,875 |  |  |


| Insurance Expense |  |
| :--- | :--- |
| $12 / 31 / \mathrm{X1}$ | 2,625 |
|  |  |

## Scenario 1: Income Statement Approach

| $06 / 01 / \mathrm{X} 1$ | Insurance Expense | 4,500 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 4,500 |
|  | To record payment for 1-year policy |  |  |


| $12 / 31 / \mathrm{X} 1$ | Prepaid Insurance | 1,875 |  |
| :--- | :--- | ---: | ---: |
|  | Insurance Expense |  | 1,875 |
|  | To record insurance "unused" <br> $(\$ 4,500 \times 5 / 12)$ |  |  |


| Prepaid Insurance |  | Insurance Expense |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 12/31/X1 | 1,875 | 06/01/X1 | 4,500 | 1,875 | 12/31/X1 |
|  |  |  | 2,625 |  |  |


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## Scenario 2: Balance Sheet Approach

| $08 / 01 / \mathrm{X1}$ | Cash | 60,000 |  |
| :--- | :--- | ---: | ---: |
|  | Unearned Revenue |  | 60,000 |
|  | To record receipt of payment for <br> future service |  |  |


| $12 / 31 / \mathrm{X} 1$ | Unearned Revenue | 24,000 |  |
| :--- | :--- | ---: | ---: |
|  | Revenue |  | 24,000 |
|  | To record revenue earned $(\$ 60,000 \times 40 \%)$ |  |  |



Scenario 2: Income Statement Approach

| $08 / 01 / X 1$ | Cash | 60,000 |  |
| :--- | :--- | ---: | ---: |
|  | Revenue |  | 60,000 |
|  | To record receipt of payment for <br> future service |  |  |


| $12 / 31 / \mathrm{X} 1$ | Revenue | 36,000 |  |
| :--- | :--- | ---: | ---: |
|  | Unearned Revenue |  | 36,000 |
|  | To record revenue not earned <br> $(\$ 60,000 \times 60 \%)$ |  |  |



## Scenario 3: Balance Sheet Approach

| $12 / 01 / \mathrm{X} 1$ | Prepaid Rent | 9,000 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 9,000 |
|  | To record payment for future booth space |  |  |


| $12 / 31 / \mathrm{X} 1$ | No Entry |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| Prepaid Rent |  |  |
| :---: | :---: | :---: |
| $12 / 01 / \mathrm{X1}$ | 9,000 |  |
|  |  |  |
|  | $=9,000$ |  |
|  |  |  |



## Scenario 3: Income Statement Approach

| $12 / 01 / X 1$ | Rent Expense | 9,000 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 9,000 |
|  | To record payment for future booth space |  |  |


| $12 / 31 / \mathrm{X} 1$ | Prepaid Rent | 9,000 |  |
| :--- | :--- | ---: | ---: |
|  | Rent Expense |  | 9,000 |
|  | To record future booth space |  |  |



## Scenario 4: Balance Sheet Approach

| $04 / 01 / \mathrm{X1}$ | Cash | 3,000 |  |
| :--- | :--- | ---: | ---: |
|  | Unearned Revenue |  | 3,000 |
|  | To record receipt of payment for <br> future service |  |  |


| $06 / 20 / X 1$ | Unearned Revenue | 3,000 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 3,000 |
|  | To record fund |  |  |



## Scenario 4: Income Statement Approach

| $04 / 01 / \mathrm{X} 1$ | Cash | 3,000 |  |
| :--- | :--- | ---: | ---: |
|  | Revenue |  | 3,000 |
|  | To record receipt of payment for <br> future service |  |  |


| $06 / 20 / X 1$ | Revenue | 3,000 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 3,000 |
|  | To record fund |  |  |



## Problem 8

Jonathan Wilde is a CPA. He has numerous clients, one of which is Wonderful Weekend Events (WWE). WWE is a full service weekend event consulting firm, and is interested in buying Weekend Wonders Photography Studio (WWPS). WWPS uses the cash basis of accounting. Jonathan has been retained to help WWE acquire WWPS, and you are a staff accountant working for Jonathan. Begin by evaluating the following facts for June.

Revenues WWPS provides a complete wedding-day package for $\$ 3,950$. The package requires a $\$ 2,000$ down payment at the time the contract is signed, a $\$ 1,000$ payment on the date of the event, and a final $\$ 950$ payment 30 days after the wedding. The company uses a mobile digital processing lab, and is able to deliver a complete wedding portfolio at the close of the reception on the wedding day itself!

75 weddings were photographed during June. All of these events were booked in earlier months. During June, an additional 92 weddings were booked for future months. Final payments were received during June for 47 weddings performed in May. None of the June weddings resulted in receipt of the final payment before July 1, but full payment is expected.


Expenses During June $\$ 124,000$ was actually paid for wages. Accrued wages at the beginning of the month totaled $\$ 24,000$. At the end of the month, $\$ 46,000$ was owed to employees.

At the close of June, the WWPS bought new photography equipment for $\$ 26,000$. Coming into June, WWPS owned equipment with a total cost of \$900,000. This equipment has an average life of 50 months.

Supplies on hand at the beginning of the month totaled $\$ 225,300$. $\$ 152,000$ was expended for supplies during the month. At the end of the month, supplies on hand were $\$ 282,400$.
a) Prepare a cash basis income statement for June. Preliminarily, WWE is willing to pay a price equal to $75 \times$ June's monthly income.
b) On further review of the facts relating to WWPS, Roger suggested that a fair offer should be based on accrual basis income. Calculate accrual basis income.
c) What is the proposed purchase price? What is the value of utlizing a CPA to assist in the business decision process.

## Worksheet 8

a)


Cash basis revenues:
b)

| WWPS <br> Income Statement <br> For the Month Ending June 30, 20XX |  |  |  |
| :--- | :--- | :--- | :--- |
| Revenues <br> Services to customers <br> Expenses <br> Wages <br> Depreciation <br> Supplies <br> Net income | $\$$ | $\$$ | - |
|  |  | - |  |

Accrual basis revenues:

Expenses:
c)

## Solution 8

a)

| WWPS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Cash Basis Income Statement |  |  |  |  |
| For the Month Ending June 30, 20XX |  |  |  |  |
| Revenues |  |  |  |  |
| Services to customers |  |  | \$ | 303,650 |
| Expenses |  |  |  |  |
| Wages | \$ | 124,000 |  |  |
| Equipment |  | 26,000 |  |  |
| Supplies |  | 152,000 |  | 302,000 |
| Cash basis income |  |  | \$ | 1,650 |


| Cash basis revenues: |  |  |
| :--- | ---: | ---: |
| 92 weddings booked @ $\$ 2,000$ payment | $\$$ | 184,000 |
| 75 weddings photographed @ $\$ 1,000$ payment |  | 75,000 |
| 47 weddings final payment @ $\$ 950$ payment |  | 44,650 |
|  | $\$$ | 303,650 |

b)

| WWPS Income Statement <br> For the Month Ending June 30, 20XX |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Revenues |  |  |  |  |
| Services to customers |  |  | \$ | 296,250 |
| Expenses |  |  |  |  |
| Wages | \$ | 146,000 |  |  |
| Depreciation |  | 18,000 |  |  |
| Supplies |  | 124,900 |  | 288,900 |
| Net income |  |  | \$ | 7,350 |


| Accrual basis revenues: |  |  |
| :---: | :---: | :---: |
| 75 weddings photographed @ \$3,950 | \$ | 296,250 |
| Expenses: |  |  |
| Wages paid | \$ | 124,000 |
| Less: Beginning accrued wages |  | $(24,000)$ |
| Plus: Ending accrued wages |  | 46,000 |
| Accrual basis wages | \$ | 146,000 |
| Depreciation (\$900,000/50 months) | \$ | 18,000 |
| Supplies purchased | \$ | 152,000 |
| Plus: Beginning supplies |  | 225,300 |
| Less: Ending supplies |  | $(252,400)$ |
| Accrual basis supplies: | \$ | 124,900 |

c) The proposed purchase price is $\$ 551,250(\$ 7,350 \times 75)$. This is a far cry from the price that would result based on the cash basis income $(\$ 123,750=\$ 1,650 \times 75)$. CPAs are well trained in financial decision making, and can offer valuable services to structure "smart" and "fair" business deals.

