

CPA Mathematics

Answer Keys/ Solutions



ALBAKIO INTERNATIONAL
LAHORE - KARACHI

Grade: One

Unit 1: Fun with numbers

Exercise 1.1

1. Count the objects and write in numerals and words.

Objects	Numerals	Words
	7	Seven
	9	Nine
	5	Five
	3	Three
	9	Nine

2. Write numbers from one to nine in your notebook.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Exercise 1.2

1. Read and write the numbers.

- | | |
|-------------|--------------|
| a) Eleven | b) Fourteen |
| c) Fifteen | d) Seventeen |
| e) Nineteen | f) Twenty |

2. Count and write as given in examples.

- | | | |
|-------|-------|-------|
| a) 13 | b) 30 | c) 14 |
| d) 15 | e) 12 | f) 20 |

3. Help the boy track down the answer. Color it green.

- | | | |
|-------|-------|-------|
| a) 17 | b) 13 | c) 20 |
|-------|-------|-------|

4. Count, read and write.

- | | |
|----|---------|
| 30 | Thirty |
| 40 | Forty |
| 50 | Fifty |
| 60 | Sixty |
| 70 | Seventy |

- | | |
|----|-------------|
| 80 | Eighty |
| 90 | Ninety |
| 99 | Ninety-Nine |

Exercise 1.3

1. Write the numbers from (0-99)

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99

Exercise 1.4

1. Write the numbers from (99-0).

99	98	97	96	95	94	93	92	91	90
89	88	87	86	85	84	83	82	81	80
79	78	77	76	75	74	73	72	71	70
69	68	67	66	65	64	63	62	61	60
59	58	57	56	55	54	53	52	51	50
49	48	47	46	45	44	43	42	41	40
39	38	37	36	35	34	33	32	31	30
29	28	27	26	25	24	23	22	21	20
19	18	17	16	15	14	13	12	11	10
9	8	7	6	5	4	3	2	1	0

Exercise 1.5

1. Tick the box which has more objects and fill in the blanks.

1. a) 7 b) 9 ✓

So, 9 is 2 more than 7.

2. a) 8 ✓ b) 5

So, 5 is 3 less than 8.

3. a) 6 b) 6

The number of apples in both of the baskets are equal.

Exercise 1.6

1. Count the objects and write "smaller than" or "greater than" in the blank.

- a) $4 < 6$
b) $20 = 20$

2. Compare and color the box with greater number.

- a) 9, 4 b) 19, 21 c) 43, 33
d) 99, 90 e) 17, 70 f) 46, 64

3. Compare and color the box with smaller number.

- a) 17, 23 b) 35, 46 c) 53, 51
d) 60, 70 e) 89, 86 f) 97, 1

Exercise 1.7

1. Arrange the given numbers in these boxes in increasing and decreasing order.

- a) 9, 17, 25, 27, 36, 57, 67, 77, 81, 82
b) 82, 81, 77, 67, 57, 36, 27, 25, 17, 9

Exercise 1.8

1. Encircle the greatest number.

- a) 36, 99, 48 b) 64, 74, 24 c) 43, 84, 68

2. Encircle the smallest number.

- a) 9, 44, 6 b) 87, 67, 77 c) 52, 62, 56

Exercise 1.9

1. Write the positions of the wagons using ordinal numbers in the box. Then color the 4th wagon blue and the 7th wagon orange.

1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th

2. Color the correct pictures to indicate correct ordinal numbers.

3rd and 9th

1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th

3. Fill in the blanks.

- a) The elephant is at the 1st position.
b) The rabbit is at the 8th position.
c) The pigeon is at the 10th position.

4. Write in the words.

1st First 3rd Third 5th Fifth
10th Tenth

Review Exercise

1. Arrange the following in increasing order.

38, 42, 45, 52, 76, 90

2. Arrange the following numbers in decreasing order.

99, 64, 47, 36, 25, 18

3. Which number comes after.

- a) 34 b) 84 c) 25
d) 18

4. Which number comes before.

- a) 74 b) 92 c) 55
d) 33

5. Which number comes between.

- a) 35 b) 78 c) 23

6. Write the numbers in words.

Seventy-six	Ninety-nine
Forty-two	Nineteen
Sixteen	Twenty
Fifty-nine	Eighty-three

7. Count the objects and write their numbers in the given boxes.

- a) 59 b) 72 c) 80

8. Write the ordinal numbers first to tenth.

1 st First	2 nd Second	3 rd Third
4 th Fourth	5 th Fifth	6 th Sixth
7 th Seventh	8 th Eight	9 th Ninth
10 th Tenth		

9. Write "smaller than", "greater than" or "equal to" in the blanks.

- a) 12 is < 18. b) 70 is > 60.
c) 99 is > 90. d) 23 is < 30.
e) 40 is = 40. f) 61 is < 62.

Unit 2: Number Operations

Exercise 2.1

1. Add the fingers, select the number and write in given space.

- a) 4 b) 6
c) 8 d) 6

2. Count and add these objects.

- a) $6 + 1 = 7$ b) $2 + 4 = 6$
c) $3 + 3 = 6$ d) $4 + 2 = 6$

3. Add the dots and write your answer in given box.

- a) $1 + 3 = 4$ b) $5 + 1 = 6$
c) $2 + 6 = 8$ d) $3 + 2 = 5$

Exercise 2.2

1. Make a number sentence.

- a) $2 + 3 = 5$ b) $5 + 2 = 7$

2. Count on the fingers and add the numbers. Don't forget to keep the bigger in mind.

- a) 6 b) 4 c) 7 d) 7 e) 7
f) 9 g) 6 h) 5 l) 8 j) 6

Exercise 2.3

1. Solve the following questions.

- a) 28 b) 35 c) 48
d) 19 f) 37

Exercise 2.4

1. Solve the following questions.

- a) 57 b) 37 c) 59
d) 78 e) 68 f) 53

Exercise 2.5

1. Complete the equations.

- a) $8 + 4 = 12$ b) $15 + 4 = 19$
c) $3 + 6 = 9$ d) $4 + 0 = 4$
e) $4 + 6 = 10$ f) $3 + 6 = 9$

Exercise 2.6

1. Add the following using mental strategy.

$$\begin{array}{r} 21 \quad + \quad 5 \\ \text{Tens: 2} \quad \text{Ones: 1} \quad \quad \quad \text{Tens: 0} \quad \text{Ones: 5} \end{array}$$

Addition of tens: $2 + 0 = 20$

Addition of ones: $1 + 5 = 6$

$$20 + 6 = 26$$

Exercise 2.7

1. Ali bought 5 balls. Subhan gave him 3 more. How many balls were there with Ali altogether?

$$5 + 3 = 8$$

2. Zahid has 3 storybooks. His sister gave him 4 more. How many storybooks were there with Zahid altogether?

$$3 + 4 = 7$$

3. There are 5 cats and 3 rabbits. How many animals are there altogether?

$$5 + 3 = 8$$

Exercise 2.8

1. Abdul Ghani bought an eraser for Rs.25 and a sharpener for Rs.13. How much money did he spend altogether?

$$\begin{array}{r} 25 \\ + 13 \\ \hline 38 \end{array}$$

2. Alina has Rs.80. His father gave her 8 rupees more. How much money is with Alina?

$$\begin{array}{r} 80 \\ + 8 \\ \hline 88 \end{array}$$

Review Exercise

1. Count objects, add them and encircle the correct number.

a) $3 + 2 = \underline{5}$, 8, 3

b) $3 + 4 = 4$, 7, 8

c) $8 + 5 = \underline{13}$, 5, 8

2. Solve the following questions.

a) 48

c) 49

c) 39

d) 98

e) 40

f) 43

Exercise 2.9

1. How many balls are lesser than bats?

7

2. How many caps are lesser than shirts?

2

Exercise 2.10

1. Count and subtract.

a) $8 - 4 = 4$

b) $9 - 5 = 4$

2. Draw lines and subtract.

a) $5 - 3 = 2$

b) $6 - 2 = 4$

3. Count mentally and subtract.

a) $9 - 4 = 5$

b) $8 - 5 = 3$

c) $7 - 3 = 4$

Exercise 2.11

1. Solve the following questions.

a) 4

b) 3

c) 2

d) 1

e) 1

f) 5

Exercise 2.12

1. Subtract the following questions.

a) 52

b) 62

c) 83

d) 71

e) 70

f) 31

2. Subtract by counting backwards.

a) 5

b) 4

c) 10

d) 14

Exercise 2.13

1. Solve the following questions.

a) 10

b) 30

Exercise 2.14

1. Subtract the following questions.

a) 5

b) 15

c) 15

d) 2

e) 2

f) 21

g) 21

h) 10

2. Subhan has Rs.58. If he gives Rs.20 to his brother. How much money will be left with Subhan?

58

- 20

38

3. Ali has 48/ milk. He sells 24/ out of it. How much milk is left with Ali?

48

- 24

24

4. Nadeem has Rs.69. He spends Rs.39. How much money will be left with Nadeem?

69

- 39

30

Exercise 2.15

1. Solve the following questions.

a) $18 - 2 = 16$

b) $33 - 14 = 19$

2. There are 8 birds sitting on a tree. 3 birds flew away.
How many birds were left on the tree?

$$8 - 5 = 3$$

3. Sidra has 9 balloons. Umar has 5 balloons. How many more balloons Sidra has than Umar?

$$9 - 5 = 4$$

Exercise 2.16

1. Subtract the following questions using mental strategy.

$$47 - 2$$

Tens: 4 Ones: 7 Tens: 0 Ones: 2

Subtraction of tens: $4 - 0 = 40$

Subtraction of ones: $7 - 2 = 5$

$$47 - 2 = 5$$

2. Subtract.

$$16 - 3 = 13$$

3. Subtract mentally.

- a) 13 b) 13 c) 10
d) 11 e) 11 f) 12

Review Exercise

1. Solve the following questions.

- a) 51 b) 14 c) 10
d) 11 e) 40 f) 24

2. Solve the problems.

- a) $17 - 6 = 11$ There are 11 fewer red crayons.
b) $19 - 7 = 12$ She used 12 stickers.

Unit 3: Money

Exercise 3.1

1. Solve the following questions.

- a) $\text{Rs.}50 + \text{Rs.}5 = \text{Rs.}55$
b) $\text{Rs.}10 + \text{Rs.}2 = \text{Rs.}12$
c) $\text{Rs.}20 - \text{Rs.}10 = \text{Rs.}10$
d) $\text{Rs.}50 - \text{Rs.}2 = \text{Rs.}48$

2. Look at price tag of different objects and solve the given problems. The first one is done for you.

- a) $\text{Rs.}50 + \text{Rs.}10 = \text{Rs.}60$
b) $\text{Rs.}20 + \text{Rs.}50 = \text{Rs.}70$
c) $\text{Rs.}40 + \text{Rs.}30 = \text{Rs.}70$
d) $\text{Rs.}50 - \text{Rs.}10 = \text{Rs.}40$
e) $\text{Rs.}40 - \text{Rs.}30 = \text{Rs.}10$

3. Tick ✓ if you can buy the object with the money given in the box and cross × if you can't buy it.

- a) ✓
b) ×
c) ×
d) ✓
e) ✓

Review Exercise

1. Encircle the correct amount of the given money.

- a) $\text{Rs.}100$ b) $\text{Rs.}20$
c) $\text{Rs.}5$ d) $\text{Rs.}10$

2. Solve the following questions.

- a) $\text{Rs.}70$ b) $\text{Rs.}60$
c) $\text{Rs.}86$ d) $\text{Rs.}97$
e) $\text{Rs.}20$ f) $\text{Rs.}53$
g) $\text{Rs.}34$ h) $\text{Rs.}27$

Unit 4: Multiplication and Division

Exercise 4.1

1. Complete the following questions.

- a) $5 \times 1 = 5$ b) $9 \times 10 = 90$ c) $9 \times 2 = 18$
d) $7 \times 10 = 70$ e) $7 \times 5 = 35$ f) $8 \times 5 = 40$

2. Complete the following questions.

- a) 35 b) 30 c) 16
d) 18 e) 10 f) 25

Exercise 4.2

1. There are 5 baskets of oranges. Each basket contains 8 oranges. How many oranges are there all together?

$$5 \times 8 = 40$$

2. There are 10 eggs in a tray. How many eggs are there in 9 trays?

$$10 \times 9 = 90$$

Exercise 4.3

1. Write the division form for the followings. The first one is done for you.

a) $16 \div 2 = 8$

b) $50 \div 10 = 5$

c) $80 \div 10 = 8$

Exercise 4.4

1. Solve the following question in your notebook.

a) $5 \overline{)40} = 8$

b) $3 \overline{)18} = 6$

c) $5 \overline{)15} = 3$

2. Nasir has 20 hats. He wants to put 5 hats in each box. How many boxes will he need?

$$20 \div 5 = 4$$

3. 40 pens are equally divided between 5 girls. How many pens would each girl get?

$$40 \div 5 = 8$$

Review Exercise

1. Complete the following.

a) 10

b) 80

c) 45

d) 8

2. Complete the following.

a) $7 \times 5 = 35$

b) $10 \times 5 = 50$

Unit 5: Fractions

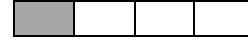
Exercise 5.1

1. Look at the fractions and shade the figures.

a)



b)



c)



2. Look at following figures, write the fractions of the colored parts.

a) $\frac{3}{4}$

b) $\frac{1}{2}$

c) $\frac{1}{4}$

Exercise 5.2

1. Match the color parts with the fractions.

a) $\frac{3}{4}$

b) $\frac{2}{4}$

Review Exercise

1. Tick ✓ the correct option.

1. B

2. C

3. C

4. D

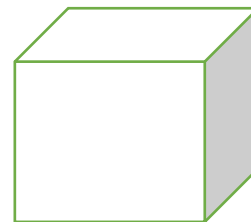
2. Tick ✓ the shape which is one half colored.

b) ✓

Unit 6: Geometry

Exercise 6.1

1. Draw different 3D shapes in your notebook and write about their features.



A cube has 6 faces, 8 vertices and 12 edges.

Exercise 6.2

1. Complete the patterns.

a)



b)

3
2
1

3
2
1

c)

Exercise 6.3

1. Color the balls in red which are inside the box and color the ball in green which are outside the box.

a) Red

b) Green

2. Draw a box put some balls inside it and outside it.

3. Cross ✕ the object that is above the bridge.

4. Tick ✓ the object that is below the bridge.

5. Tick ✓ the zebra which is near the tree and cross ✕ the elephant which is far from the tree.

6. Observe the positions of the hen in each picture and circle the correct option.

a) Right

b) Left

Unit 7: Measurements

Exercise 7.1

1. Answer the following questions.

a) hand-span

b) pace

c) cubit

d) cubit

2. Tick ✓ the correct answers.

a) hand-span

b) pace

c) cubit

d) fingers

e) pace

Exercise 7.2

1. Draw three trees of different sizes in your notebook.

e) 5

f) 10

Exercise 8.2

1. Read the time from analog clock and write it on digital clock.

a) 1:00 b) 6:00 c) 7:00 d) 3:00

e) 11:00 f) 8:00 g) 4:00

Exercise 8.3

1. Tell the names of days of the week to your teacher.

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

2. Which day comes before?

a) Sunday

b) Tuesday

c) Saturday

d) Wednesday

3. Which day comes after?

a) Saturday

b) Thursday

c) Wednesday

d) Sunday

4. Answer these questions.

a) Monday

b) Sunday

c) Wednesday

Review Exercise

1. Read the time from analog clock and write it on digital clock.

a) 3:00

b) 4:00

c) 11:00

2. Fill in the blanks.

a) Hours

b) Minutes

c) January

d) December

3. Which day comes.

a) Tuesday

b) Sunday

c) Monday

d) Saturday

e) Sunday

Unit 9: Interpretation of data

Exercise 9.1

1. Complete the pictograph.

a) Favorite Toy

b) 6

c) 4

d) 18

e) 1

f) Dolls

2. Complete the graph.

a) Favorite color

b) 6

c) 5

d) 18

e) 2

f) Red

Exercise 9.2

1. The teacher of a school recorded the favorite subjects of her students in a bar graph. Use the graph to enter the questions.

a) English

b) Others

c) Math

d) Social studies and Science

Exercise 9.3

1.

a) 5

b) Pencils

c) 2