

Unit 04 PC Form A

1.  **Use pencil and paper to answer the question.**

Use your ruler to measure the line segment to the nearest $\frac{1}{2}$ centimeter.



About _____ cm

ANSWER: Because of differences in printer scaling, the intended measure may be inaccurate. The intended measure for this segment is:

About 4.5 cm.

Measure the printed segment to the nearest $\frac{1}{2}$ centimeter to determine the correct length based on your local printer settings.

2.  **Use pencil and paper to answer the question.**

Measure the line segments to the nearest $\frac{1}{2}$ centimeter.

a.



About _____ cm

b.



About _____ cm

ANSWER: Because of differences in printer scaling, the intended measures may be inaccurate. The intended measures for the segments are:

a. About 4 cm

b. About 6.5 cm

Measure the printed segments to the nearest $\frac{1}{2}$ centimeter to determine the correct lengths based on your local printer settings.

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3.  **Use pencil and paper to answer the question.**

Use your ruler to measure the line segment to the nearest $\frac{1}{2}$ centimeter.

About _____ cm

ANSWER: Because of differences in printer scaling, the intended measure may be inaccurate. The intended measure for the segment is:

About 2.5 cm

Measure the printed segment to the nearest $\frac{1}{2}$ centimeter to determine the correct length based on your local printer settings.

4.  **Use pencil and paper to answer the question.**

Use your ruler to measure the line segment to the nearest half-centimeter.

_____ cm

ANSWER: Because of differences in printer scaling, the intended measure may be inaccurate. The intended measure for this segment is:

5.5 cm.

Measure the printed segment to the nearest half-centimeter to determine the correct length based on your local printer settings.

5.  **Use pencil and paper to answer the question.**

Draw a line segment 9.5 centimeters long.

ANSWER: Measure the student's line segment. Accept line segments that measure close to 9.5 cm.

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6.  Use pencil and paper to answer the question.

Solve each open sentence.

a. $r + 529 = 898$

$r = \underline{\hspace{2cm}}$

b. $92 - c = 69$

$c = \underline{\hspace{2cm}}$

c. $m * 6 = 42$

$m = \underline{\hspace{2cm}}$

d. $45 / n = 9$

$n = \underline{\hspace{2cm}}$

ANSWER:

a. 369

b. 23

c. 7

d. 5

7. Write > or < to make a true number sentence.

$9.77 \underline{\hspace{1cm}} 9.9$

ANSWER: <

8.  Use pencil and paper to answer the question.

Write > or < to make a true number sentence.

a. $0.8 \underline{\hspace{1cm}} 0.54$

b. $8.7 \underline{\hspace{1cm}} 8.38$

c. $5.7 + 6.5 \underline{\hspace{1cm}} 7.9 + 4.8$

d. $6.55 - 6.36 \underline{\hspace{1cm}} 7.5 - 6.6$

ANSWER:

a. >

b. >

c. <

d. <

9. Write > or < to make a true number sentence.

$3.5 + 6.6 \underline{\hspace{1cm}} 3.8 + 6.9$

ANSWER: <

10. Write > or < to make a true number sentence.

$4.46 - 4.17 \underline{\hspace{1cm}} 8.3 - 6.4$

ANSWER: <

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11.  **Use pencil and paper to answer the question.**

Write the following numbers in order from smallest to largest.

0.002, 0.08, 4.3, 4.05, 0.8, 0.2

_____ smallest

_____ largest

ANSWER: 0.002, 0.08, 0.2, 0.8, 4.05, 4.3

12.  **Use pencil and paper to answer the question.**

Write two numbers between 0 and 1. Use decimals.

_____, _____

ANSWER: Sample answer: 0.3 and 0.06

13.  **Use pencil and paper to answer the question.**

- a. Write two numbers between 6 and 7. Use decimals.

_____, _____

- b. Write two numbers between 0 and 1. Use decimals.

_____, _____

ANSWER: Sample answers:

a. 6.3 and 6.06

b. 0.5 and 0.27

14.  **Use pencil and paper to answer the question.**

Use your ruler to measure the line segment to the nearest centimeter.

About _____ cm

ANSWER: Because of differences in printer scaling, the intended measure may be inaccurate.

The intended measure for this segment is 4.2 cm; to the nearest centimeter, the measurement should be recorded as:

About 4 cm.

Measure the printed segment to the nearest centimeter to determine the correct length based on your local printer settings.

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15.  **Use pencil and paper to answer the question.**

List the first ten multiples of 9.

_____, _____, _____, _____, _____,
_____, _____, _____, _____, _____

ANSWER: 9, 18, 27, 36, 45, 54, 63, 72, 81, 90

16.  **Use pencil and paper to answer the question.**

a. List the first six multiples of 6.

_____, _____, _____, _____, _____, _____

b. Is 6 a prime number or a composite number? _____

ANSWER: a. 6, 12, 18, 24, 30, 36

b. composite

17.  **Use pencil and paper to answer the question.**

List the factor pairs of 18.

_____ and _____
_____ and _____
_____ and _____

ANSWER: 1 and 18, 2 and 9, 3 and 6

18.  **Use pencil and paper to answer the question.**

a. List the factor pairs of 28.

_____ and _____
_____ and _____
_____ and _____

b. Is 28 a prime number or a composite number? _____

ANSWER: a. 1 and 28, 2 and 14, 7 and 4

b. composite

19. Add mentally or with a paper-and-pencil algorithm.

$$\text{\$ } \underline{\hspace{2cm}} = \$34.42 + \$3.47$$

ANSWER: 37.89

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20. Add mentally or with a paper-and-pencil algorithm.

$$7.4 + 3.6 = \underline{\hspace{2cm}}$$

ANSWER: 11

21. Add mentally or with a paper-and-pencil algorithm.

$$45.61 + 8.7 = \underline{\hspace{2cm}}$$

ANSWER: 54.31

22. Subtract mentally or with a paper-and-pencil algorithm.

$$\$_{\underline{\hspace{2cm}}} = \$33.65 - \$1.53$$

ANSWER: 32.12

23. Subtract mentally or with a paper-and-pencil algorithm.

$$41.6 - 1.8 = \underline{\hspace{2cm}}$$

ANSWER: 39.8

24. Subtract mentally or with a paper-and-pencil algorithm.

$$\underline{\hspace{2cm}} = 36.4 - 29.88$$

ANSWER: 6.52

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25.  Use pencil and paper to answer the question.

Add or subtract mentally or with a paper-and-pencil algorithm.

a. $\$24.22 + \$4.44 = \$$ _____

b. _____ = $9.2 + 1.2$

c. _____ = $52.91 + 3.4$

d. $\$11.75 - \$3.34 = \$$ _____

e. $38.5 - 8.9 =$ _____

f. _____ = $54.1 - 47.73$

ANSWER:

a. $\$28.66$

b. 10.4

c. 56.31

d. $\$8.41$

e. 29.6

f. 6.37

26. Solve the open sentence.

$401 + r = 731$ $r =$ _____

- a. 330 b. 320 c. 1132 d. 340

ANSWER: a

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27. Solve the open sentence.

$$74 - a = 18 \quad a = \underline{\hspace{2cm}}$$

- a. 56 b. 66 c. 92 d. 82

ANSWER: a

28. Solve the open sentence.

$$20 = x * 4 \quad x = \underline{\hspace{2cm}}$$

- a. 5 b. 4 c. 16 d. 80

ANSWER: a

29. Solve the open sentence.

$$28 / t = 4 \quad t = \underline{\hspace{2cm}}$$

- a. 7 b. 112 c. 24 d. 6

ANSWER: a

30. Write the decimal as a fraction.

$$0.2 = \underline{\hspace{2cm}}$$

- a. $\frac{2}{10}$ b. $\frac{2}{1}$ c. $\frac{2}{100}$ d. $\frac{2}{1,000}$

ANSWER: a

31.  Use pencil and paper to answer the question.

Write each decimal as a fraction.

- a. $0.3 = \underline{\hspace{2cm}}$ b. $0.39 = \underline{\hspace{2cm}}$ c. $0.961 = \underline{\hspace{2cm}}$

ANSWER:

- a. $\frac{3}{10}$ b. $\frac{39}{100}$ c. $\frac{961}{1,000}$

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32.  **Use pencil and paper to answer the question.**

Use your ruler to measure and record the line segment to the nearest millimeter. Then write your answer in centimeters.



_____ mm, _____ cm

ANSWER: Because of differences in printer scaling, the intended measure may be inaccurate.

The intended measures for this segment are:

73 mm, 7.3 cm.

Measure the printed segment to the nearest millimeter to determine the correct length based on your local printer settings.

33.  **Use pencil and paper to answer the question.**

Use your ruler to measure and record the line segments to the nearest millimeter. Then write your answer in centimeters.

a.



_____ mm, _____ cm

b.



_____ mm, _____ cm

ANSWER: Because of differences in printer scaling, the intended measures may be inaccurate.

The intended measures for the segments are:

a. 61 mm, 6.1 cm

b. 37 mm, 3.7 cm

Measure the printed segments to the nearest millimeter to determine the correct lengths based on your local printer settings.

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34.  **Use pencil and paper to answer the question.**

Use your ruler to measure and record the line segments to the nearest millimeter. Then write your answer in centimeters.



a.

_____ mm, _____ cm



b.

_____ mm, _____ cm

ANSWER: Because of differences in printer scaling, the intended measures may be inaccurate.

The intended measures for the segments are:

a. 73 mm, 7.3 cm

b. 34 mm, 3.4 cm

Measure the printed segments to the nearest millimeter to determine the correct lengths based on your local printer settings.

35.  **Use pencil and paper to answer the question.**

Mrs. Carmona had \$97.16 in her savings account. She deposited \$32.50. A week later, she deposited \$36.25. What is the new balance in her savings account?

\$ _____

Write what you did to find the answer.

ANSWER: Sample answer:

\$165.91;

I added \$32.50 to \$97.16 because she deposited \$32.50 to her account, and I got \$129.66. Then I added \$36.25 to \$129.66 because she deposited \$36.25 to her account, and I got \$165.91.

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36.  **Use pencil and paper to answer the question.**

Marissa was working with base-10 blocks. She was using the big cube as the ONE. The flats were tenths. The longs were hundredths. Marissa counted 13 longs—

"one-hundredth, two-hundredths, three-hundredths, four-hundredths, five-hundredths, six-hundredths, seven-hundredths, eight-hundredths, nine-hundredths, ten-hundredths, eleven-hundredths, twelve-hundredths, thirteen-hundredths"

She wrote 0.013 to show what the blocks were worth. Is Marissa right? Explain.

ANSWER: No.

Sample answer:

13 hundredths is the same as 10 hundredths (0.1) plus 3 more hundredths (0.03);

$0.1 + 0.03 = 0.13$. 0.013 is 13 thousandths, which isn't the same as 13 hundredths. She should have written 0.13.

37.  **Use pencil and paper to answer the question.**

Forming a Relay Team

Mr. Ren, the gym teacher, wants to form 3 teams for a 200-yard relay race. There will be 4 students on each team. Each student will run 50 yards.

The table below shows how long it took some fourth-grade students to run 50 yards the last time they had a race. They were timed to the nearest tenth of a second.

Runner	Time (seconds)
Roxy	6.3
Gracia	6.5
Peter	6.8
Matthew	7.2
Andrea	7.9
Abigail	8.3
Adam	6.6
Shane	6.9
Nicholas	7.1
Elizabeth	7.5
Melissa	8.5
Lisa	8.8

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a. Help Mr. Ren create 3 teams that will be fairly evenly matched. He will use their times from the last race to predict about how fast they will run in the relay race.

Write the names of the four students that you think should be on each team.
Estimate about how long you think it will take each team to complete the race.

Names of 4 Students on Each Team	Estimated Team Time
---	----------------------------

Team 1: _____	About: _____.____ seconds
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Team 2: _____	About: _____.____ seconds
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Team 3: _____	About: _____.____ seconds
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b. Explain how you made your teams so that they would be fairly matched.

ANSWER: **a.** Team 1: Roxy, Gracia, Melissa, Lisa, 30.1 seconds. Team 2: Adam, Peter, Andrea, Abigail, 29.6 seconds. Team 3: Shane, Nicholas, Matthew, Elizabeth, 28.7 seconds.
b. Put the students in order from fastest to slowest. Take two people from the top and two people from the bottom for each team.