

Dear Parents / Students

Due to the unprecedented situation, Knowledgeplus Training center is mobilized and will keep accompanying and supporting our students through this difficult time. Our Staff will be continuously, sending notes and exercises on a weekly basis through what's app and email. Students are requested to copy the notes and do the exercises on their copybooks. The answers to the questions below will be made available on our website on knowledgeplus.mu/support.php. Please note that these are extra work and notes that we are providing our students and all classes will be replaced during the winter vacation. We thank you for your trust and are convinced that, together, we will overcome these troubled times.

Knowledgeplus Training Center

Mathematics

Garde 10 & 11

Notes and Exercise

Note:(All the Notes, Examples and Exercise are on the photos and Note:(Please copy all the Notes, Examples and Exercises on your copy book).

Mathematics form 4 & 5
 Next month you will have more
 difficult question on simultaneous equation
 first you must master the simple one.

To master the simultaneous equation
 question you must workout Cambridge Examination
 question.

Attempt All Question.

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|-------------------------------------|------------------------------------|
| 1. Solve the simultaneous equations | $3x + 5y = 11,$ $2x - 3y = 20.$ |
| 2. Solve the simultaneous equations | $3x - 2y = 13,$ $2x + 3y = 0.$ |
| 3. Solve the simultaneous equations | $3x + 3.2y = 40,$ $2x - 3.2y = 0.$ |
| 4. Solve the simultaneous equations | $3x - 4y = 25,$ $4x - 5y = 32.$ |
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- | | |
|--------------------------------------|--------------------------------|
| 15. Solve the simultaneous equations | $y = 6x - 4,$ $4x + 5y = -18.$ |
| 16. Solve the simultaneous equations | $y = 3x - 2,$ $2x - 4y = 3.$ |
| 17. Solve the simultaneous equations | $y = 2x - 3,$ $3x - 2y = 0.$ |
| 18. Solve the simultaneous equations | $2x = 3y,$ $7x - 3y = 15.$ |
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Standard form

In standard form there is decimal ^{and} numbers
indices for example:

$$A \times 10^n$$

A must be 1. it must not be 11.2 etc

The most important the ~~num~~ decimal number
must be in the range $1 \leq A \leq 10$ for
example: 2.5×10^7 , 4×10^{-5} , $7 \times 10^{1/2}$, $3 \times 10^!$

Now you must know how to express
a number in standard form and express
standard form into number.

Example Most important

As you know Right = positive +
left = Negative -

But in standard form

<p>left = Positive + Right = Negative -</p>

Example

Express the following in the standard form. (i) 51743.8 (ii) 0.000231 (iii) 3

Solution

$$(i) \underbrace{51743.8}_{4321} = 5.17438 \times 10^4$$

$$(ii) \underbrace{0.000231}_{-1-2-3-4} = 2.31 \times 10^{-4}$$

$$(iii) 3 = 3 \times 10^0$$

Example 2

Express each of the following in the ordinary notation.

$$(i) 5.498 \times 10^2 \quad (ii) 3.82 \times 10^{-2}$$

$$(i) 5.498 \times 10^2 = \underbrace{5.498}_{12} \rightarrow \text{We have move 2 decimal place because there is } 10^2. \\ = 549.8 \quad \text{If there was } 10^5, \text{ you will have to move 5 decimal place.}$$

$$(ii) 3.82 \times 10^{-2} = \underbrace{3.82}_{-2-1} = 0.0382$$

Attempt All Question.

1. Express the following in the standard form

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|---------------|-------------|----------------|---------------|-----------|
| (i) 237.5 | (ii) 56.17 | (iii) 912400 | (iv) 612006 | (v) 944.2 |
| (vi) 28000.15 | (vii) 10.04 | (viii) 0.00077 | (ix) 0.008306 | (x) 0.296 |
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2. Express the following in the ordinary notation

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|---------------------------|-----------------------------|-------------------------------|
| (i) 6.37×10^3 | (ii) 2.47×10^2 | (iii) 9.8×10^5 |
| (vi) 8.1×10^{-2} | (vii) 5.09×10^{-4} | (viii) 4.213×10^{-3} |
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