





**TABLE 1**

|  | Value | What is it? | Expressed in standard form |
|--|-------|-------------|----------------------------|
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |

2. Expressing numbers to a specified number of significant figures

ALWAYS

decimal format 3

ALL

- NO FRACTIONS -
- NO MULTIPLES of ,

RECURRING





**TABLE 4**

| Initial value | Change | % | Final value |
|---------------|--------|---|-------------|
|               |        |   |             |
|               |        |   |             |
|               |        |   |             |
|               |        |   |             |
|               |        |   |             |
|               |        |   |             |
|               |        |   |             |
|               |        |   |             |





**TABLE 5**

| Calculation | Answer |
|-------------|--------|
|             |        |
|             |        |
|             |        |





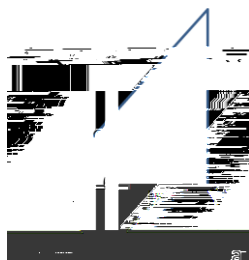


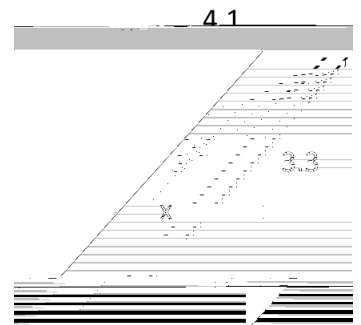
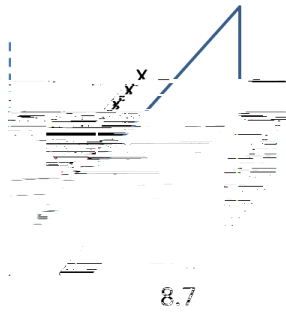
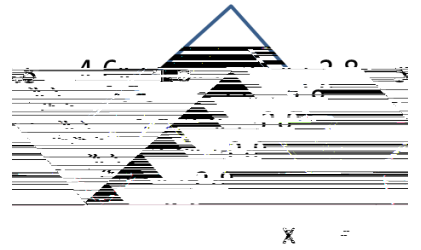
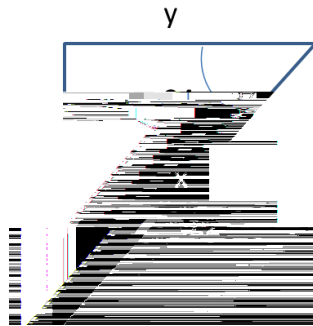
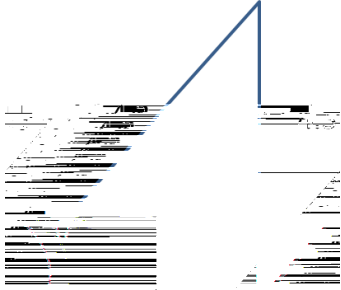


**TABLE 9**

| Angle in degrees | Angle in radians |
|------------------|------------------|
|                  |                  |
|                  |                  |
|                  |                  |
|                  |                  |
|                  |                  |
|                  |                  |
|                  |                  |
|                  |                  |
|                  |                  |
|                  |                  |

7. Simple trigonometry.





y

8. Re-arranging formulae

ESSENTIAL

| Equation | Make this the subject | Operation (to both sides) | Steps       |
|----------|-----------------------|---------------------------|-------------|
|          |                       |                           | $b = a - c$ |
|          |                       |                           | $c = b - a$ |

| Equation | Make this the subject | Operation (to both sides) | Steps |
|----------|-----------------------|---------------------------|-------|
| —        |                       |                           | —     |
|          |                       |                           | —     |
|          |                       |                           | —     |



Maths for Physics I Basic skills

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

Maths for Physics I Basic skills

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

9. Performing complex calculations on a calculator





11. ANSWERS

1. Expressing numbers in standard form.

|  | Value | What is it? | Expressed in standard form |
|--|-------|-------------|----------------------------|
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |
|  |       |             |                            |

Number

5. Prefixes used in Physics

| Prefix value | Base unit value |
|--------------|-----------------|
|              |                 |
|              |                 |
|              |                 |
|              |                 |
|              |                 |
|              |                 |
|              |                 |
|              |                 |
|              |                 |
|              |                 |

| Base unit value | Prefix value |
|-----------------|--------------|
|                 |              |
|                 |              |
|                 |              |
|                 |              |
|                 |              |
|                 |              |
|                 |              |
|                 |              |
|                 |              |

6. Converting between units

| Convert the following | Into this unit | Answer |
|-----------------------|----------------|--------|
|                       |                |        |
|                       |                |        |
|                       |                |        |





9. Performing complex calculations on a calculator

10. Answering a question (putting all the skills together)

|  |           |                                   |
|--|-----------|-----------------------------------|
|  |           |                                   |
|  | $m = F/a$ | $m = 2.00 \times 10^3 \text{ kg}$ |