

**Numeracy**

**Cohort** Secondary

**Country** Kenya

**Language** English



**Note:** This is an assessment used in classrooms for the Schools2030 programme. It is being shared to demonstrate the approaches to assessment that Schools2030 is developing.

For those interested in using or adapting this tool, further information including teacher guides, psychometric analysis, and other supplementary materials are available on request.



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| **NUMERACY** | |
| 1 | Write the place value of 3 in the following numbers:   |  |  | | --- | --- | | 1. 238,000 |  | | 1. 760.4539 |  | |
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| 2 | Write the following numbers in words:   |  |  | | --- | --- | | 1. 230,000 |  | | 1. 802,225,354 |  | |
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| 3 | Answer the following questions:   |  | | --- | | 1. 62,000,000 + 7,300,000= | | 1. 673,456,785 + 325,263,432= | |
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| 4 | Answer the following questions:   |  | | --- | | 1. 500 × 3 = | | 1. 630 × 20 = | | 1. 300 × 20 = | |  | |
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| 5 | Answer the following questions:   |  |  | | --- | --- | | 1. 80,000 ÷ 200 = |  | | 1. 540,000 ÷ 300 = |  | |
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| 6 | Answer the following questions:   |  | | --- | | 1. 1,200,000 – 687,000 = | | 1. 367,542,000 – 234,654,838 = | |
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| 7 | A bus company sold four buses as follows:  The first bus was sold for 200,000,000/=. The second bus was sold for 504,628,000/=. The third bus was sold for 400,450,000/=. The fourth bus was sold for 644,560,550/=. Calculate the total amount of money earned by the company from the sale of the four buses. |
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| 8 | District A had 10,700,486 sheep and District B had 16,320,455. Find the difference between the number of sheep in the two districts. |
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| 9 | Mount Kilimanjaro is the highest mountain in Africa while Mount Everest is the highest mountain in the world.  8848 meters  5895 metres  Mount Everest  Mount Kilimanjaro |
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|  | How much higher is Mount Everest than Kilimanjaro? |

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| 10 | A bus carries 40 passengers, each passenger pays 3500/=. How much money does the bus owner collect in one trip if the bus is full? |
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| 11 | Eva received an allowance of 300,000/= from her mother. She was requested to spend an equal amount each month for 12 months. How much did she spend per month? |
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| 12 | The top of a table is in the shape of a trapezium.  a = 1.2 m  h = 0.6 m  b = 0.6 m |
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|  | What is the area of the tabletop? |

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| 13 | Claire bought a new dress at 250,000 /= and later sold it to Annet at a loss of 60,000 /=. How much did Annet buy the dress for? |
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| 14 | Convert the time below into 12-hour clock time.  Digital LED 23:59 Alarm Clock Time PNG « Digital PNG |
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| 15 | Using a ruler, a pencil, and a pair of compasses only, construct an angle of 90˚. |
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| 16 | Using a ruler, pencil, and a pair of compasses only, construct a regular quadrilateral in a circle of radius of 3.5 cm. |
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|  | Measure the sides of the quadrilateral. |

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| 17 | Round off 4.978 to the nearest tenths. |
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| 18 | Find the HCF of 120 and 192. |
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| 19 | Solve for x.  5 – 3x = 17 |
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| 20 | Solve  (–5 + 8) × (6 – 14) |
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| 21 | Simplify the following algebraic expressions:   |  | | --- | | 1. (6x – y) – 2(4x – 3y) | | 1. (4x – 9y) + 7x – 5y – 3x | |
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| 22 | Draw a diagram to represent each of the fractions.   |  | | --- | | 1. 1/2 | | 1. 3/4 | |
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| 23 | Convert the following decimal into a fraction in its simplest form:  0.48 |
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| 24 | Write ¾ as a decimal. |
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| 25 | Convert ¼ into percentage. |
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| 26 | Convert 30 kilograms into grams. |
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| 27 | Mary, Fatima, and Joseph shared a certain amount of money in the ratio 2:4:3 respectively. If Fatima got 120,000/=   |  | | --- | | 1. How much did they share altogether? | | 1. How much more money did Fatima get than Mary? | |
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| 28 | Increase 4,000 by 12 ½ % |
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| 29 | The table below shows the marks scored by students in a science test:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Marks scored | 66 | 80 | 96 | 78 | | Number of learners | 45 | 10 | 4 | 6 | | 1. How many students sat for the test? | | | | | | 1. How many students scored above the mean mark? | | | | | |
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| 30 | Find the area of a rectangle whose length is 30 centimeters, and its width is 15 centimeters. |
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