

NUMERACY

To assist prospective Mayfield students prepare for the Numeracy component of the Literacy/Writing & Numeracy Test, we have prepared a sample of the type of questions you can expect to encounter.

The answers are at the end of this document, but try and work these out prior to looking at the answers.

We urge all applicants to read and understand these questions prior to applying and paying for the test.

Questions:

1. Convert to fractions:
 - a) 80%,
 - b) 37%,
2. Convert to decimals
 - a) $\frac{1}{2}$,
 - b) $\frac{4}{5}$
3. Find the value of x in the following equation
$$120 = 2X + 40$$
4. If a patient was ordered 1 gram of Penicillin 4 times a day, the capsules contained 500mg, how many capsules would the patient need in 24 hours?
5. If a solution contained 40ml of bleach and you needed a solution of 1:4 how much water would you add to make up to 200 ml.
6. $7 \times 13.2 =$
7. $84 \text{ divided by } 9 =$ (express as a whole number and a fraction)
8. $31.3 + 402.5 + 7 =$
9. 1575 ml was the fluid intake of a patient, If they vomited 250ml of fluid what was the resulting fluid intake retained by the person?
10. If a nurse is paid at a rate of \$18 per hour and works a 7.5 hour shift how much in total would they earn for 5 days of work?

ANSWERS

1. Convert to fractions:

a) 80%, = $\frac{4}{5}$

b) 37%, $\frac{37}{100}$

2. Convert to decimals

a) $\frac{1}{2}$, = .5

b) 4.5 = **0.8**

3. Find the value of x in the following equation

$$120 = 2X + 40$$

$$X = 40$$

4. If a patient was ordered 1 gram of Penicillin 4 times a day, the capsules contained 500mg, how many capsules would the patient need in 24 hours?

Answer : 8

5. If a solution contained 40ml of bleach and you needed a solution of 1:4 how much water would you add to make up to 200 ml.

Answer: 160 ml

6. $7 \times 13.2 =$

Answer: 92.4

7. 84 divided by 9 = ? (express as a whole number and a fraction)

Answer: 9 $\frac{1}{3}$

8. $31.3 + 402.5 + 7 =$

Answer: 440.8

9. 1575 ml was the fluid intake of a patient. If they vomited 250ml of fluid what was the resulting fluid intake retained by the person?

Answer: 1325 ml

10. If a nurse is paid at a rate of \$18 per hour and works a 7.5 hour shift how much in total would they earn for 5 days of work?

Answer: \$675.00