

Mathematics diagnostic test



Nursing

Learning Skills

Introduction:

The following questions indicate the mathematics basic skills that nursing students need to be able to perform quickly and accurately by hand. Calculators are not allowed in mathematics or medications assessments.

Test your preparedness by attempting the following questions.

1. Print off this sheet and attempt the questions by hand.

1. $47 + 52 =$
2. $376 - 159 =$
3. $27 \times 3 =$
4. $83 \times 25 =$
5. $20 \times 60 =$
6. $136 \div 4 =$
7. $345 \div 15 =$
8. $123 \div 5 =$
9. $10.84 + 9.6 + 0.123 =$
10. $53.4 \times 5 =$
11. $0.8 \times 0.2 =$
12. $7.02 \div 3 =$
13. $0.525 \div 5 =$
14. $3.954 \times 1000 =$
15. $782 \div 1000 =$
- 16 Convert 6 grams to milligrams
- 17 Convert 3.52 Litres to millilitres
- 18 Convert 576 micrograms to milligrams
- 19 Simplify to lowest form a. $\frac{35}{40}$ b. $\frac{80}{200}$

20. Multiply the following fractions giving answers in simplest form as a proper or improper fraction

a. $\frac{4}{5} \times \frac{2}{7}$

b. $\frac{5}{8} \times \frac{40}{100}$

c. $\frac{16}{60} \times 2$

21. Round 486.5 to the nearest whole number
22. Convert $\frac{1}{5}$ to a decimal
23. Convert $\frac{8}{7}$ to a decimal rounded to 2 decimal places
24. Express 65% as a fraction in simplest form
25. Express $\frac{1}{20}$ as a percentage
26. Express $\frac{3}{250}$ as a percentage
27. Find 5% of 120mL
28. Add 45 minutes to 1 hour 50 minutes.
29. The rate of flow for an IV infusion is calculated by the formula

$$\text{rate}(mL/h) = \frac{\text{volume}(mL)}{\text{time}(h)}$$

Find the rate of flow if 1000mL of normal saline is to be infused over 8 hours.

2. Follow up

Check your answers.

3. For more information

Visit our Learning Skills website at <http://www.csu.edu.au/division/studserv/maths/index.htm>

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