Sample Maths Test
Southern Institute of Technology

Instructions

Numeracy is an essential component of nursing, and required for many clinical skills. This is an assessment of how well you understand numeracy problems.

You need to answer or choose the answer you think is best for each question.

For your group interview, you will have 30 minutes to complete this assessment. You can expect 30 questions. On the pages following is a sample of 10 questions, which are reflective of the types of questions you can expect.

1. Tui buys a car.

Just $600 a month for 40 months (No deposit)

How much will the car cost Tui in total?

$ _____

2. This table shows the reward points needed for one year's subscription to each of these four different magazines.

Magazine	Reward Points needed	Number of issues per year
Sport NZ	500 points	10 issues
Petz	450 points	12 issues
Healthy Lives	220 points	11 issues
Catering	240 points	6 issues

How many points are required to subscribe to 40 issues of Sport NZ?

a) 200
b) 540

Adapted from
NZCER and ACER
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c) 2000
d) 5000

3. The supermarket meat was at a temperature of 3ºC. The temperature dropped to -1ºC.

By how much has the temperature changed?

a) It has gone down by 2 ºC.
b) It has gone down by 3 ºC.
c) It has gone down by 4 ºC.
d) It has gone up by 2 ºC.

4. Joshua was asked to multiply $47.80 by 1.125 on his calculator. The answer Joshua got was $54.253.

Joshua's answer is wrong. What did he do wrong?

a) Joshua added instead of multiplying
b) Joshua divided instead of multiplying

5. This tray of kiwifruit weighs 3.5 kg. A pallet holds 174 trays of kiwifruit.

What is the weight of 174 trays of kiwifruit?

_____ kg

6. A 3-digit number uses **all** of the three digits below. The number is greater than 4.5 but less than 5.

What is the number?

_____

7. Here is the electricity account for the E household.

GLOBAL POWER   Electricity Account

Electricity Charges
A. B. Ehu
27 Ranui Street
Glendale

Billing period: 11 November 2008 to 9 December 2008 (28 days)

	Reading at 11/11/2008 (kWh)	Reading at 9/12/2008 (kWh)	Unit price (per kWh)	Total charge ($)
Electricity usage	09 755	10 645	18.1 cents	161.09
Daily connection fee			35 cents	9.80
			Total electricity charges	

**The computer misprinted the total electricity charges.
What should this amount be?**

$ _____

8. Identify which of the following equal 10⁴?

Circle **Yes** or **No** for each one.

10 × 4	Yes	No
10 × 10 × 10	Yes	No
10 × 10 × 10 × 10	Yes	No
10 + 10 + 10 + 10	Yes	No

9. Review the picture below.

How much would you pay if you bought the White Microwave Model W275 on sale at the Stocktake sale?

$_____

10. This table shows the reward points needed for one year's subscription to each of these four different magazines.

Magazine	Reward Points needed	Number of issues per year
Sport NZ	500 points	10 issues
Petz	450 points	12 issues
Healthy Lives	220 points	11 issues
Catering	240 points	6 issues

Which magazine would use the most reward points per issue?

_____

End of Sample questions

Answer Guide

1. $24000
2. C
3. C
4. D
5. 609kg
6. 4.53
7. $170.89
8. No, No, Yes, No
9. $276.50
10. Sport NZ