

NUMERACY REVIEW – UNIT TEST REVIEW

1. Solve by addition or subtraction (8 marks)

a) $10 - 2$

b) $-5 - 11$

c) $-4 + 5$

d) $6 - (-5)$

e) $(-1) + (-5) + (-9)$

e) $12 - (-6) + (-4) - 9$

2. At the start of the summer Erin had \$560 in her bank account. Over the summer she spent \$235 and made \$468 working her part-time job. How much money should Erin have in her account at the end of the summer? (3 marks)

3. Solve by multiplication or division (6 marks)

a) $6 \times (-4)$

c) $(-2) \times (-1)$

e) $-\frac{24}{4}$

b) $(\frac{-8}{2})$

d) $(-36) \div (-9)$

f) $-4(2)(-3)$

4. Determine a pair of integers that meet the criteria outlined (6 marks)

a) Multiply to -20
Add to 1

b) Multiply to 42
Add to -13

c) Multiply to 25
Add to 10

5. Write each expression as a power (2 marks)

a) $4 \times 4 \times 4 \times 4 \times 4$

b) $(-2) \times (-2) \times (-2)$

6. For each power, indicate which number is the base and which is the exponent (3 marks)

a) 5^3

Base:

Exponent:

b) $(-6)^4$

Base:

Exponent:

c) 125^1

Base:

Exponent:

7. Evaluate (2 marks)

a) 5^3

b) 2^5

8. Evaluate (3 marks)

a) $\sqrt{36}$

b) $\sqrt{64}$

c) $\sqrt{12}$

9. Evaluate (6 marks)

a) $2^5 - 5^1$

b) $4^2 + 10^2$

c) $\sqrt{20 - 4}$

c) $\sqrt{36} + 2^3$

e) $9^2 - \sqrt{68 - 4}$

f) $3^3 - \sqrt{9} + 2^3$

10. Simplify. (Don't forget BEDMAS rules) -SHOW ALL YOUR WORK- (11 marks)

a) $-5 + 4 \times 2$

b) $2(4 - 1) + 2 \times 3$

c) $4(-3 + 1)^2 - (6 - 4)^3$

f) $\sqrt{49} - (-4) + 3^2$

MFM2P

NAME:

DATE:

11. Evaluate using substitution. (12 marks)

a) $6a + 3b$ when $a = 3, b = -2$

c) $-9x + y^2$ when $x = -4, y = -7$

b) $x^2 - 3x + 10$ when $x = 2$

d) $y^2 + 4y - 13$ when $y = 4$

12. Write the following ratios in simplest form (3 marks)

a) 18:20

b) 20:40

c) 36:720

13. Evaluation the following fractions. (6 marks)

a) $\frac{3}{4} + \frac{1}{5}$

b) $\frac{7}{15} - \frac{2}{5}$

c) $\frac{3}{4} \times \frac{2}{5}$

d) $\frac{3}{4} \div \frac{7}{8}$

MF2P

NAME:

DATE:

14. Jill thinks that $-3 \times -5 = 15$. Her friend thinks that the answer should be -15 . Who is correct? Explain your answer. (2 marks)

15. The temperature this morning at sunrise was 5°C . It rose 12°C by midday and then fell 7° by sunset. What was the temperature at sunset? (3 marks)

16. John wants to buy a used ATV that costs $\$2100$ by the end of the summer. He has $\$650$ in his account at the start of the summer. He figures he will make about $\$1900$ from his summer job and he wants to be able to spend $\$350$ on daily expenses. Will he have enough money at the end of the summer to buy the ATV? (3 marks)