



# Year 7 Mathematics

End Term 3

40 marks

40 mins

Date

Instructions: 1. Answer all questions 2. Calculators permitted

## Question 1 (10 marks - 1 mark each)

- Write  $5 \times 5 \times 5 \times 5 \times 5$  in index form:
- Write  $2^4$  in factor form:
- Calculate  $3 \times 10^2 + 2 \times 10^1 + 7$ .
- Find all the factors of each of the following numbers:
  - 15
  - 18
- Find the highest common factor of 9 and 24.
- Use factor trees to find the prime factors of 25.
- Find the square of 4
- What is the square root of 9?
- What is the cube root of 27

Sample 1

## Question 2 (11 marks)

- a) Solve each of the following equations:

i)  $x + 3 = 10$

ii)  $x - 5 = 8$

iii)  $4x = 12$

iv)  $a \div 5 = 3$

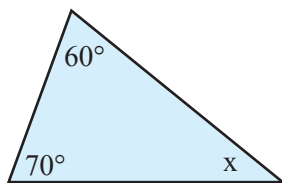
v)  $3b + 4 = 22$

(1 each)

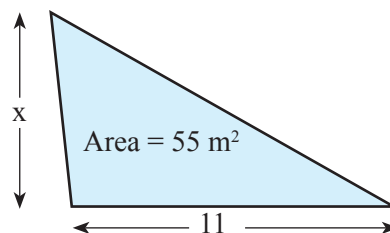
- b) For each of the following problems:

- Write an equation.
- Solve the equation.
- Check the answer.

i)



ii)



- iii) The printer charges an upfront \$125 and then \$0.15 per flyer.  
How many flyers can be printed for \$1500?

(2 each)







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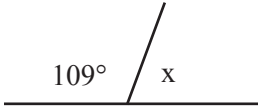
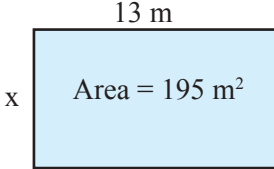
Instructions: 1. Answer all questions 2. Calculators permitted

## Question 1 (10 marks - 1 mark each)

- Write  $2 \times 2 \times 2 \times 2 \times 2$  in index form:
- Write  $3^5$  in factor form:
- Calculate  $5 \times 10^2 + 4 \times 10^1 + 8$ .
- Find all the factors of each of the following numbers:
  - 10
  - 20
- Find the highest common factor of 8 and 24.
- Use factor trees to find the prime factors of 20.
- Find the square of 3
- What is the square root of 16?
- What is the cube root of 64

Sample 2

## Question 2 (11 marks)

- Solve each of the following equations:
  - $x + 6 = 13$
  - $x - 3 = 7$
  - $5x = 10$
  - $b \div 4 = 6$
  - $4m + 2 = 22$(1 each)
- For each of the following problems:
  - Write an equation.
  - Solve the equation.
  - Check the answer.
  - 
  - 
  - The electrician charges \$85 callout and then \$80 per hour. How many hours of work will the plumber put in for \$650?(2 each)



