

## GRADE 10 MATHEMATICS MARCH TEST

### QUESTION 1

1.1 Copy and complete the following table on your answer sheet:  
Only tick in the applicable columns.

(4)

	$\sqrt{2}$	$\sqrt{3}$	$\sqrt{5}$	$\sqrt{7}$	$\sqrt{10}$	$\sqrt{12}$	$\sqrt{15}$
$\sqrt{3} + \sqrt{2}$							
$\sqrt{2} \times \sqrt{3}$							
$\sqrt{10} \times \sqrt{3}$							
$\sqrt{7} \times \sqrt{2}$							

1.2 Determine between which integers the following irrational number lie:

(2)

1.3 Use the ladder method to give the prime factors of 5104.

(5)

### QUESTION 2

Factorise the following expressions:

2.1  $x^2 - 49$

(1)

2.2  $2x^2 - 12x + 10$

(2)

2.3  $4x^2 - 1$

(2)

2.4  $3x^2 + 9x - 12$

(2)

### QUESTION 3

Simplify the following expressions:

3.1  $(x - 5)(3x + 2)$

(2)

3.2  $\frac{1}{x} + \frac{1}{y}$

(2)

3.3  $\frac{5x^2 + 25x}{5x}$

(2)

### QUESTION 4

Simplify the following using the exponential laws.

4.1  $\frac{1}{x^3}$

(1)

4.2  $x^0$

(2)

Solve for  $x$ :

4.3  $2^x - 5 = 11$

(2)

### QUESTION 5

Solve for  $x$ :

5.1  $(x - 3)(x + 5) = 0$

(2)

5.2  $3x + 2 = 2x - 1$

(2)

5.3  $\frac{1}{x} = \frac{1}{2}$

(2)

5.4  $\frac{1+x}{x} + 5 > 8$

(2)

5.5 Solve  $x$  and  $y$  simultaneously:

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

(4)

(2)

### QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

(2)

6.1.2

(2)

6.1.3

(2)

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