GRADE 10 MATHEMATICS MARCH TEST

QUESTION 1

1.1 Copy and complete the following table on your answer sheet:
Only tick in the applicable column/s. (4)

	$\mathbb{N}$	$\mathbb{N}_0$	$\mathbb{Z}$	$\mathbb{Q}$	$\mathbb{Q}'$	$\mathbb{R}$	$\mathbb{R}'$
$\sqrt{9}+8$							
$\frac{6}{3}$							
$0,1\dot{3}$							
$\sqrt{5}$							

1.2 Determine between which integers the following irrational number lie: (2)

1.3 Use the ladder method to give the prime factors of 5184. (2)
[8]

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$ (1)

2.2 (2)

2.3 (3)

2.4 $3x^2 + 5x - 12$ (2)
[8]

QUESTION 3

Simplify the following expressions:

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

3.2 (3)

3.3 (3)
[5]

QUESTION 4

Simplify the following using the exponential laws:

4.1 $\frac{5}{x^2}$ (1)

4.2 (3)

Solve for x:

4.3 $2^x - 5 = 11$ (2)
[6]

QUESTION 5

Solve for x:

5.1 $(x-3)(x+5)=0$ (2)

5.2 (3)

5.3 (4)

5.4 $\frac{x+3}{2} + 5 > 8$ (3)

5.5 Solve x and y simultaneously (5)

5.6 Jane is 3 years older than her sister. Together they are 19 years old. (4)
[21]

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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Linda Pound,Trisha Lee

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