The City School

North Nazimabad Boys Campus

# Subject: Mathematics

# Practice worksheet paper 1

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Q1: a) Evaluate 12 2 – 8 [1]

b) Evaluate 2.6 0.2 [2]

Q2: a) It is given that n [2]

Write down the decimal value of n that satisfies this inequality.

b) Express as a percentage. [1]

Q3: a) Evaluate - [2]

b) Evaluate 1 , giving your answer as a fraction in its lowest terms. [2]

Q4: a) Solve 5y – 3 3y 12 [1]

b) Write down all the integers that satisfy the inequality -6 3x 6. [2]

Q5: ABC is a right-angled triangle with AB 6cm and BC 9 cm.

A semi circle of diameter 6 cm is joined to the triangle along AB.

Find an expression, in the form a b, for the total area of the shape. [3]

Q6:a) The ratios of boys to girls in a class is 4:5. What fraction of the class are boys? [1]

b) The ratio of boys to girls in a school is 3:4. There are 120 more girls than boys.

How many students are in the school? [2]

Q7: y is directly proportional to the square of x. Given that y2 when x4, find y when x10. [3]

Q8:

A B

These two cylinders are similar. The ratio of their volumes is 8:27.

The height of cylinders A is 12 cm. Find the height of cylinder B. [3]