The City School

 North Nazimabad Boys Campus

# Subject: Mathematics

# Practice worksheet paper 1

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Q1: a) Evaluate 12 $+ 6 ÷$ 2 – 8 [1]

 b) Evaluate 2.6 $×$ 0.2 [2]

Q2: a) It is given that $\frac{1}{5}$ $<$ n $<$ $\frac{1}{4}$ [2]

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

 b) Express $\frac{48}{60}$ as a percentage. [1]

Q3: a) Evaluate $\frac{2}{3}$ - $\frac{3}{8}$ [2]

b) Evaluate 1$\frac{3}{4}$ $×$ $\frac{2}{9}$ , 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 $\leq $ 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$π$, 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 y$=$2 when x$=$4, find y when x$=$10. [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]