

## IPC (Mathematics)

Full marks will not be awarded for a correct answer with no working. Answers must be supported by working and/or explanation.

**1** Answer the following questions.

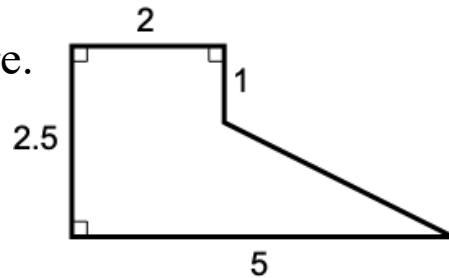
(1) Find 0.12 of 1.8. Write your answer as a fraction.

(2) Order the numbers from least to greatest:

$$0.6, \frac{7}{11}, \frac{4}{7}, 1 - \frac{1}{3}$$

(3) Four consecutive odd numbers add up to 56.  
What is the first number?

(4) Find the area of the figure.



(5) Naritoshi rode a bicycle at 20 km/h for 24 minutes on a 10 km road. What percentage of the way did he ride?

**2**

Calculate each of the following. For these a minimum of three lines of working should be shown with your final answer.

$$(1) 10 - 2 \div \frac{2}{3} \times 0.25 + \frac{1}{4}$$

$$(2) \frac{9}{0.2} \div \left( \frac{1}{2} - \frac{2}{5} \right) \div \frac{1.2}{5.4} - 50 \div 2$$

**3**

The following figure below shows the results of a 10-point math test given to a class of 50 students. The number of students who scored 3 points and 5 points is not given in the figure. It is known though, that the number of students who scored a 3, was 7 fewer than the number of students who scored a 5.

(1) Determine the percentage of students who scored 7 or more points on the quiz.

(2) Find the number of students who scored 5 points on the quiz.

(3) Determine the average score on the quiz.

