




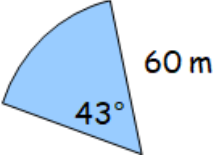





Name:	Date:
<p>Question 1:</p>  <p>A farmer decreases the area in his field by 40%.</p> <p>The area of the field is now 384 m².</p> <p>What was the original area of his field?</p> 	 APP 1-3a Silver Outcome 1
<p>Question 2:</p> <p>Factorise the following expression;</p> $b^2 + 6b - 16$	 E+F 1-2b Silver Outcome 3
<p>Question 3:</p> <p>Evaluate;</p> $1\frac{3}{5} \times 1\frac{3}{10}$	 APP 1-3b Gold Outcome 2
<p>Question 4:</p> <p>Calculate the length of the minor arc below with radius 60 metres.</p>  	 E+F 1-4b Silver Outcome 1
<p>Question 5:</p> <p>Calculate the semi-interquartile range for the following data set.</p> $52, 57, 55, 53, 61, 58$	 APP 1-4 Silver Outcome 1
My score:	

Exam Questions



Question 1:

Expand and simplify

$$(3x + 1)(x^2 - 5x + 4).$$

3



E+F 1.2a Gold Outcome 3

Question 2:

Change the subject of the formula

$$K = \frac{m^2 n}{p}$$

to m .

3



REL 1.1e Silver Outcome 2

Question 3:

Three groups are booking a holiday. The first group consists of 6 adults and 2 children. The total cost of their holiday is £3148.



Let x pounds be the cost for an adult and y pounds be the cost for a child.

- (a) Write down an equation in x and y which satisfies the above information.

1

The second group books the same holiday for 5 adults and 3 children. The total cost of their holiday is £3022.



- (b) Write down a second equation in x and y which satisfies this information.

1

- (c) The third group books the same holiday for 2 adults and 4 children. The travel agent calculates that the total cost is £2056.

Has this group been overcharged?

Justify your answer.

4



REL 1.1d Gold Outcome 1

Question 4:

Express

$$\frac{a}{x} - \frac{b}{y}, \quad x \neq 0, \quad y \neq 0,$$

as a fraction in its simplest form.

2



E+F 1.3 Silver Outcome 2

Question 5:

Solve the equation

$$2x^2 + 4x - 9 = 0,$$

giving the roots correct to one decimal place.

4



E+F 1.3a Gold Outcome 3

My score: