
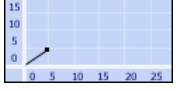




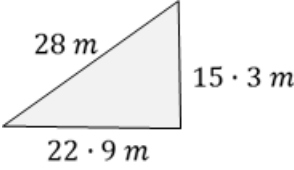




Name:	Date:
<p>Question 1:</p> <p>Factorise the following expression;</p> $x^2 - x - 12$	 E+F 1·2b Silver Outcome 3
<p>Question 2:</p>  <p>A \$4000 investment is expected to return a profit of 7·9% p.a.</p> <p>How much is the investment expected to be worth after 3 years?</p> 	 APP 1·3a Silver Outcome 2
<p>Question 3:</p> <p>Express the following as a single fraction in it's simplest form.</p> $\frac{5}{(x+3)} + \frac{3}{(x+7)}$	 E+F 1·3 Gold Outcome 2
<p>Question 4:</p> <p>Find the equation of the line joining the points (2, 4) and (4, 8).</p> <p>Give the equation in it's simplest form.</p>	 REL 1·1a Silver Outcome 2
<p>Question 5:</p> <p>Use the converse of Pythagoras to determine whether or not the following triangle is right-angled.</p>  	 E+F 1·4a Bronze Outcome 1
My score:	

Exam Questions



Question 1:

Multiply out the brackets
and collect like terms.

$$(3x - 5)(x^2 + 2x - 6) \quad \mathbf{3}$$



E+F 1·2a Gold Outcome 3

Question 2:

Evaluate $6\frac{1}{5} - 2\frac{1}{3}$. $\mathbf{2}$



APP 1·3b Gold Outcome 1

Question 3:

Seats on flights from London to Edinburgh
are sold at two prices, £30 and £50.

On one flight a total of 130 seats was sold.

Let x be the number of seats sold at £30
and y be the number of seats sold at £50.

- (a) Write down an equation in x and y
which satisfies the above condition. $\mathbf{1}$

The sale of the seats on this flight totalled £6000.

- (b) Write down a second equation in x and y
which satisfies this condition. $\mathbf{1}$

- (c) How many seats were sold at each price? $\mathbf{4}$



REL 1·1d Gold Outcome 1

Question 4:

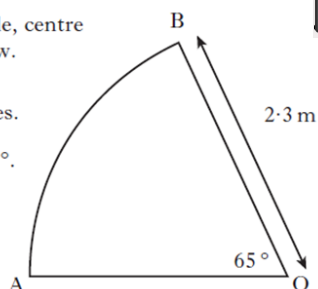
A sector of a circle, centre
 O , is shown below.

The radius of the
circle is 2·3 metres.

Angle AOB is 65° .

Find the length
of the arc AB .

$\mathbf{3}$



E+F 1·4b Silver Outcome 1

Question 5:

Solve the equation $2x^2 + 7x - 3 = 0$, giving
the roots correct to one decimal place. $\mathbf{4}$



REL 1·3a Gold Outcome 3

My score: