Please check the examination d	etails below	before ente	ering your can	didate information
Candidate surname			Other name	25
Pearson Edexcel Functional Skills	Centre	e Number		Candidate Number
Practice Set	2			
Time: 25 minutes		Paper R	eference <b>F</b>	PRACL2/N02
<b>Mathematics</b> Level 2 Section A (Non – Calc	ulator	)		
<b>You must have:</b> Pen, HB pencil, eraser, ruler gra pair of compasses. Tracing pap	aduated in per may b	n cm and e used.	mm, protr	actor,

#### My signature confirms that I will not discuss the content of the test with anyone.

#### Signature:\_

#### Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Sign the declaration.
- Answer **all** questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided there may be more space than you need.
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- Calculators may not be used.
- Take the value of  $\pi$  to be 3.14

#### Information

- The total mark for this section is 16.
- The marks for each question are shown in brackets.
  use this as a guide as to how much time to spend on each question.
- This sign  $\checkmark$  shows where marks will be awarded for showing your checks.

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Worked Solutions

#### Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.



Turn over 🕨



Please note that these worked solutions have neither been provided nor approved by Pearson Education and may not necessarily constitute the only possible solutions. Please refer to the original mark schemes for full guidance.

Any writing in blue indicates what must be written in order to answer the questions and get the marks. The worked solutions have been designed to show the smallest amount of work which needs to be done to answer the question.

Anything written in green in a cloud doesn't have to be written in the exam.

Anything written in orange in a rectangle doesn't have to be written in the exam and is there to show what should be put into a calculator or measured using a ruler or protractor.

If you find any mistakes or have any requests or suggestions, please send an email to curtis@cgmaths.co.uk





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## 4 Jack is a jeweller.

He makes a pendant in the shape of a triangular prism as shown in the diagram.



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Jack makes the pendant from solid gold.

He uses this formula.

$$V = TL$$

where V = volume of a triangular prism (cm<sup>3</sup>) T = area of the triangular face (cm<sup>2</sup>) L = length of the prism (cm)

### Jack knows that

- mass = density × volume
- the density of gold is 19 grams per cm<sup>3</sup>
- the cost of 1 gram of gold is £40

Jack sells the pendant for £382 more than the total cost of the gold needed to make the pendant.

How much does Jack sell the pendant for?



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